WEST Search History

Hide Items | Restore | Clear | Cancel

DATE: Friday, January 06, 2006

Hide?	**Set Name**	**Query**	**Hit Count**
		DB=PGPB; PLUR=YES; OP=ADJ	
☐	L5	(antagonizing enterovirus).clm.	0
☐	L4	(enterovirus inhibit).clm.	0
☐	L3	(enterovirus in vitro).clm.	0
☐	L2	(enterovirus).clm.	100
☐	L1	(enterovirus).clm	0

END OF SEARCH HISTORY

```
* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *
* * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 08:48:16 ON 06 JAN 2006

=> file reg
=> screen 2040
L1    SCREEN CREATED

=>
Uploading C:\Program Files\Stnexp\Queries\b677218.str
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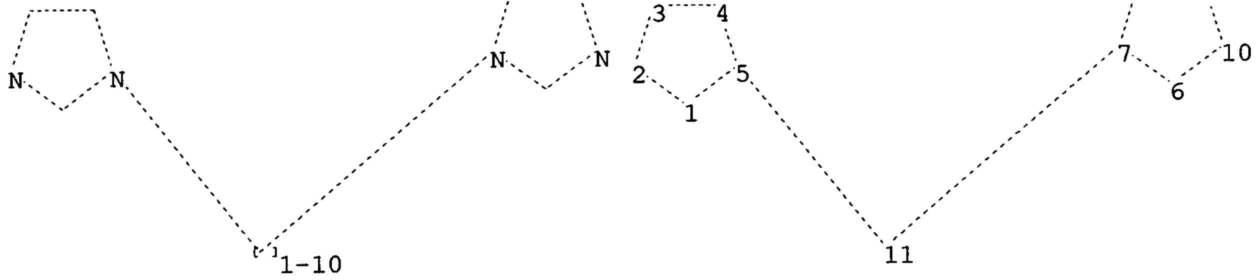

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chain nodes :
11
ring nodes :
1  2  3  4  5  6  7  8  9  10
chain bonds :
5-11  7-11
ring bonds :
1-2  1-5  2-3  3-4  4-5  6-7  6-10  7-8  8-9  9-10
exact/norm bonds :
1-2  1-5  2-3  3-4  4-5  5-11  6-7  6-10  7-8  7-11  8-9  9-10
isolated ring systems :
containing 1 : 6 :


Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  10:Atom
11:CLASS



L2      STRUCTURE UPLOADED

=> dis l2
L2 HAS NO ANSWERS
L2              STR
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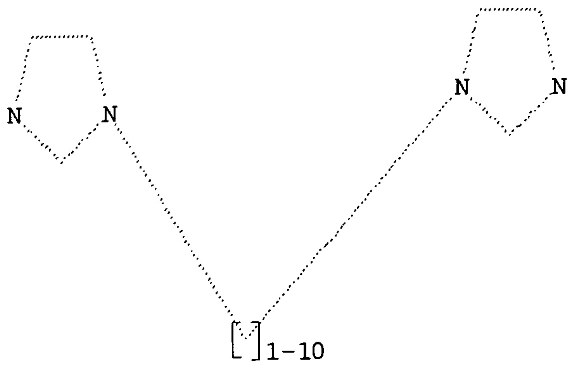

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Structure attributes must be viewed using STN Express query preparation.


=> s l1 and l2
SAMPLE SEARCH INITIATED 08:49:03 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       82 TO ITERATE

100.0% PROCESSED       82 ITERATIONS                           44 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        1097 TO     2183
PROJECTED ANSWERS:            483 TO     1277

L3            44 SEA SSS SAM L1 AND L2

=> s l1 and l2 full
FULL SEARCH INITIATED 08:49:14 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     1749 TO ITERATE

100.0% PROCESSED     1749 ITERATIONS                          953 ANSWERS
SEARCH TIME: 00.00.01

L4           953 SEA SSS FUL L1 AND L2

=> e hexafluorophosphate/cn
E1             1      HEXAFLUOROOXOTUNGSTATE(2-)/CN
E2             1      HEXAFLUOROPALLADATE(2-)/CN
E3             1 --> HEXAFLUOROPHOSPHATE/CN
E4             1      HEXAFLUOROPHOSPHATE ION/CN
E5             1      HEXAFLUOROPHOSPHATE(1-)/CN
E6             1      HEXAFLUOROPHOSPHATE(1-) ION/CN
E7             1      HEXAFLUOROPHOSPHORIC ACID/CN
E8             1      HEXAFLUOROPHOSPHORIC ACID DIETHYL ETHERATE/CN
E9             1      HEXAFLUOROPHOSPHORIC ACID HEXAHYDRATE/CN
E10            1      HEXAFLUOROPHTHALAZINE/CN
E11            1      HEXAFLUOROPLATINATE (PTF6-)/CN
E12            1      HEXAFLUOROPLATINATE(1-)/CN

=> s e5
```

```
L5          1 "HEXAFLUOROPHOSPHATE(1-)"/CN

=> dis l5

L5   ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   16919-18-9  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   Phosphate(1-), hexafluoro- (8CI, 9CI)  (CA INDEX NAME)
OTHER NAMES:
CN   Hexafluorophosphate
CN   Hexafluorophosphate ion
CN   Hexafluorophosphate(1-)
CN   Hexafluorophosphate(1-) ion
DR   856583-90-9, 62796-00-3, 145425-92-9, 153334-76-0, 156644-39-2,
     243458-68-6, 366821-59-2
MF   F6 P
CI   CCS, COM
LC   STN Files:   AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT,
       CEN, CHEMINFORMRX, CIN, CSCHEM, CSNB, DETHERM*, GMELIN*, PIRA, PROMT,
       TOXCENTER, USPAT2, USPATFULL
         (*File contains numerically searchable property data)
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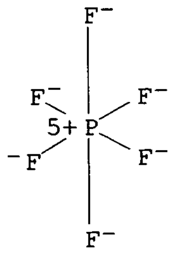

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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

              861 REFERENCES IN FILE CA (1907 TO DATE)
               76 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
              863 REFERENCES IN FILE CAPLUS (1907 TO DATE)


=> s l4 and l5
L6            0 L4 AND L5

=>  file caplus
=> s l4 and l5
            230 L4
            863 L5
L7            0 L4 AND L5

=> s l4 and phosphate
            230 L4
         533707 PHOSPHATE
L8            4 L4 AND PHOSPHATE

=> dis l8 1-4 bib abs hitstr
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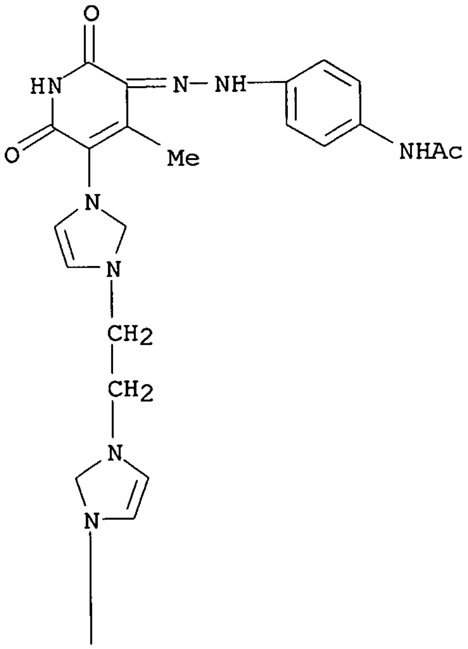
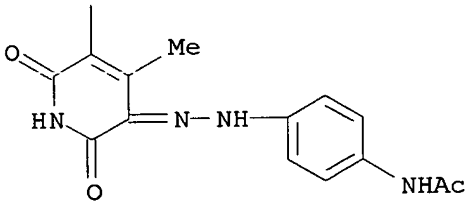
✓

```
L8   ANSWER 1 OF 4  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2004:512206  CAPLUS
DN   141:76341
TI   Hair dye compositions containing a polycationic direct dye
IN   Lagrange, Alain
PA   L'oreal, Fr.
SO   Fr. Demande, 65 pp.
     CODEN: FRXXBL
DT   Patent
LA   French
FAN.CNT 1
     PATENT NO.          KIND    DATE         APPLICATION NO.        DATE
     ---------------     ----    --------     --------------------   --------
PI   FR 2848837           A1     20040625     FR 2002-16564          20021223
     EP 1433473           A1     20040630     EP 2003-293291         20031223
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     US 2004194229        A1     20041007     US 2003-742841         20031223
     JP 2004203888        A2     20040722     JP 2003-428262         20031224
PRAI FR 2002-16564        A      20021223
     US 2003-468734P      P      20030508
OS   MARPAT 141:76341
AB   The dyeing of human keratin fibers and more particularly of the human hair
     comprises a direct polycationic dye containing e.g., azomethine,
     phenothiazine, triarylmethane, or xanthene groups.  Thus, a formulation
     contained an imidazolium azo dye 0.70, benzyl alc. 4.0, PEG 6.0, alkyl
     polyglucoside 4.5, phosphate buffer qs, and water qs to 100 g.
IT   143126-94-7 143126-96-9 143126-98-1
     143127-00-8 143127-02-0 143127-04-2
     143127-06-4 143127-08-6 143127-10-0
     143127-12-2 143127-14-4 143127-18-8
     143127-20-2 143127-22-4 143127-37-1
     143127-44-0
     RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
        (hair dye compns. containing polycationic direct dye)
RN   143126-94-7  CAPLUS
CN   1H-Imidazolium, 1,1'-(1,2-ethanediyl)bis[3-[5-[[4-
     (acetylamino)phenyl]hydrazono]-1,2,5,6-tetrahydro-4-methyl-2,6-dioxo-3-
     pyridinyl]-, dihydroxide (9CI)  (CA INDEX NAME)
```

PAGE 1-A



PAGE 2-A



●2 OH$^-$

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

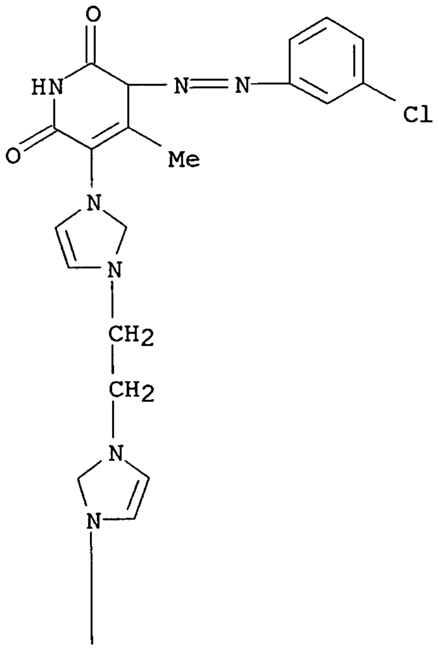
RN 143126-96-9 CAPLUS

CN 1H-Imidazolium, 1,1'-(1,2-ethanediyl)bis[3-[5-[(3-chlorophenyl)azo]-1,2,5,6-tetrahydro-4-methyl-2,6-dioxo-3-pyridinyl]-, diacetate (9CI) (CA INDEX NAME)

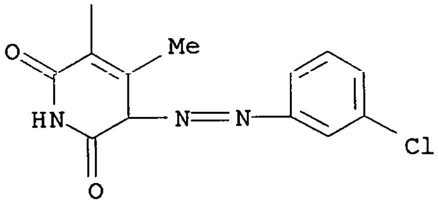
CM 1

CRN 143126-95-8
CMF $C_{32}H_{28}Cl_2N_{10}O_4$

PAGE 1-A



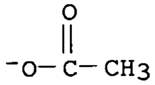
PAGE 2-A



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 71-50-1
CMF C2 H3 O2



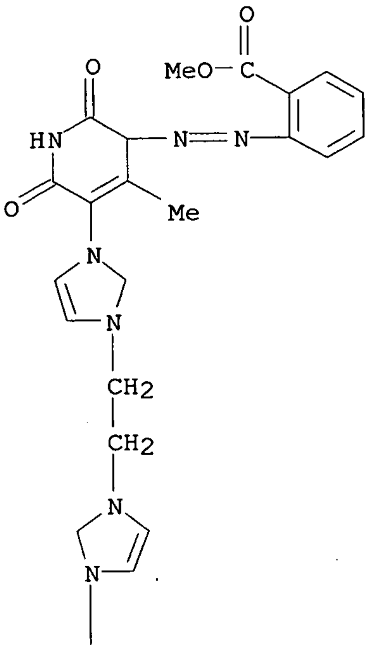
$^{-}O-\overset{\overset{\displaystyle O}{\|}}{C}-CH_3$

RN 143126-98-1 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,2-ethanediyl)bis[3-[1,2,5,6-tetrahydro-5-[[2-(methoxycarbonyl)phenyl]azo]-4-methyl-2,6-dioxo-3-pyridinyl]-, diacetate (9CI) (CA INDEX NAME)

CM 1

CRN 143126-97-0
CMF C36 H34 N10 O8

PAGE 1-A



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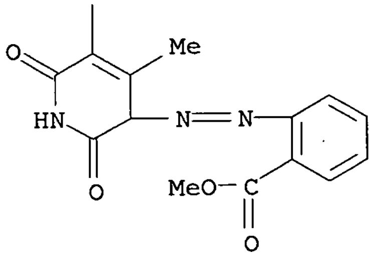
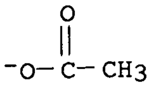


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 71-50-1
CMF C2 H3 O2



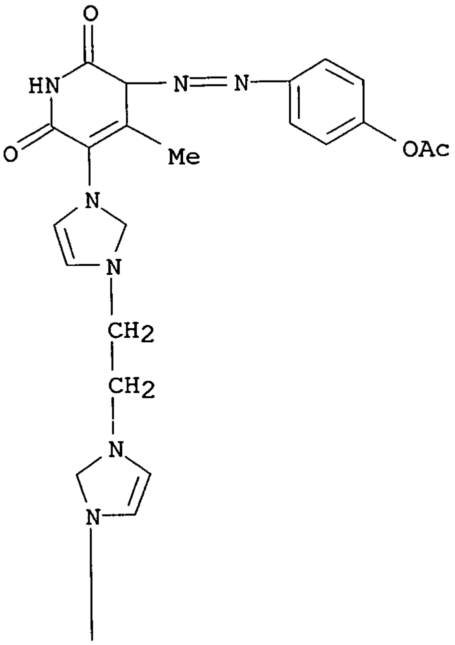
$^{-}O-\overset{\overset{O}{\|}}{C}-CH_3$

RN 143127-00-8 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,2-ethanediyl)bis[3-[5-[[4-(acetyloxy)phenyl]azo]-1,2,5,6-tetrahydro-4-methyl-2,6-dioxo-3-pyridinyl]-, diacetate (9CI) (CA INDEX NAME)

CM 1

CRN 143126-99-2
CMF C36 H34 N10 O8

PAGE 1-A



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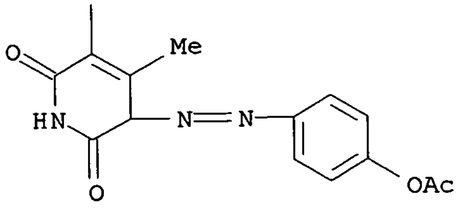
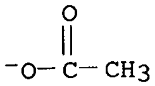


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 71-50-1
CMF C2 H3 O2



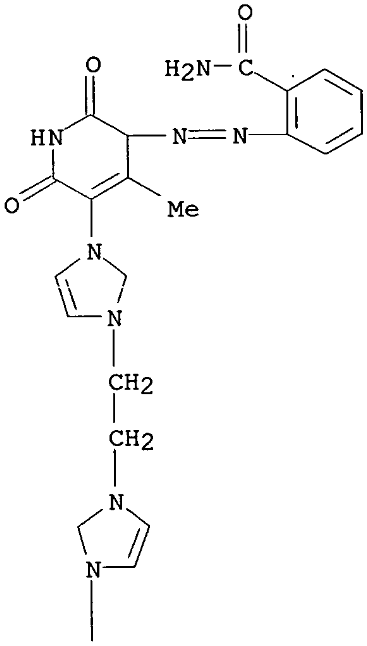
$^{-}O-C(=O)-CH_3$

RN 143127-02-0 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,2-ethanediyl)bis[3-[5-[[2-(aminocarbonyl)phenyl]azo]-1,2,5,6-tetrahydro-4-methyl-2,6-dioxo-3-pyridinyl]-, diacetate (9CI) (CA INDEX NAME)

CM 1

CRN 143127-01-9
CMF C34 H32 N12 O6

PAGE 1-A



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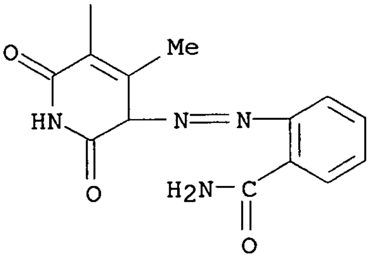
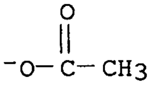


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 71-50-1
CMF C2 H3 O2

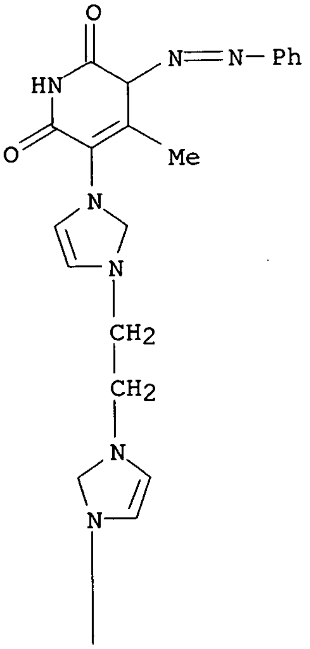


RN 143127-04-2 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,2-ethanediyl)bis[3-[1,2,5,6-tetrahydro-4-methyl-2,6-dioxo-5-(phenylazo)-3-pyridinyl]-, diacetate (9CI) (CA INDEX NAME)

CM 1

CRN 143127-03-1
CMF C32 H30 N10 O4

PAGE 1-A



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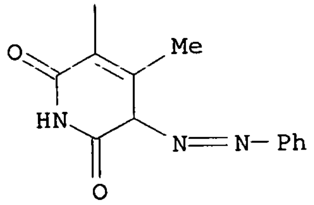
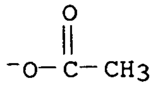


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 71-50-1
CMF C2 H3 O2

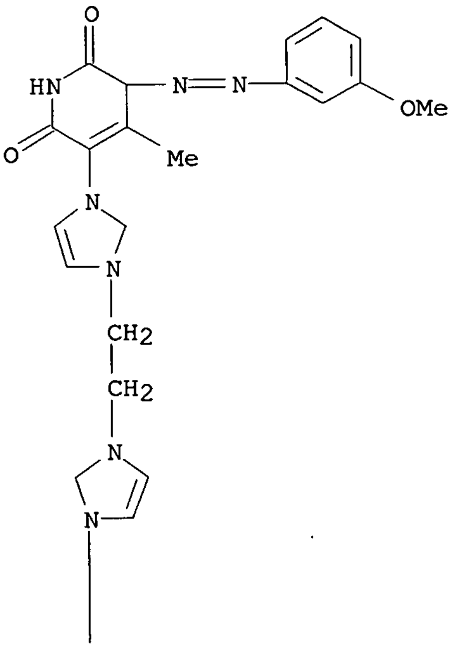


RN 143127-06-4 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,2-ethanediyl)bis[3-[1,2,5,6-tetrahydro-5-[(3-methoxyphenyl)azo]-4-methyl-2,6-dioxo-3-pyridinyl]-, diacetate (9CI) (CA INDEX NAME)

CM 1

CRN 143127-05-3
CMF C34 H34 N10 O6

PAGE 1-A



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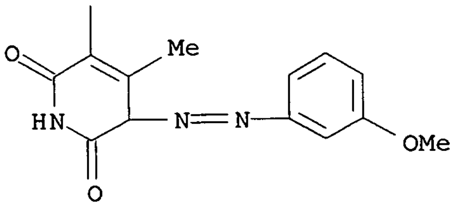
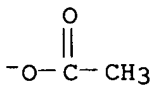


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 71-50-1
CMF C2 H3 O2



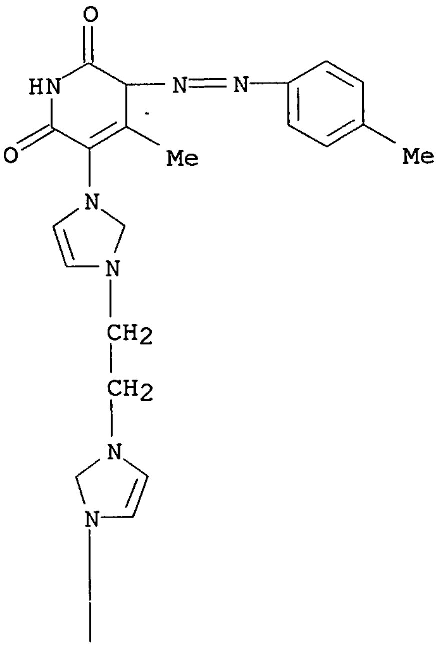
$$^{-}O-\overset{\overset{O}{\|}}{C}-CH_3$$

RN 143127-08-6 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,2-ethanediyl)bis[3-[1,2,5,6-tetrahydro-4-methyl-5-[(4-methylphenyl)azo]-2,6-dioxo-3-pyridinyl]-, diacetate (9CI) (CA INDEX NAME)

CM 1

CRN 143127-07-5
CMF C34 H34 N10 O4

PAGE 1-A



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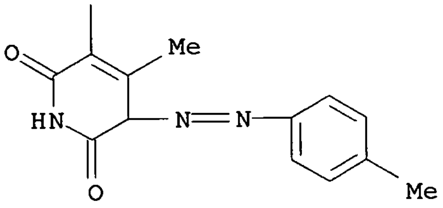
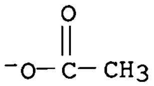


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 71-50-1
CMF C2 H3 O2



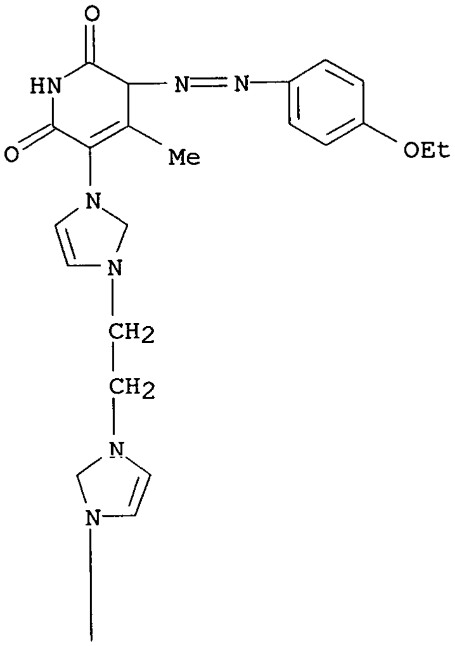
$^{-}O-C(=O)-CH_3$

RN 143127-10-0 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,2-ethanediyl)bis[3-[5-[(4-ethoxyphenyl)azo]-1,2,5,6-tetrahydro-4-methyl-2,6-dioxo-3-pyridinyl]-, diacetate (9CI) (CA INDEX NAME)

CM 1

CRN 143127-09-7
CMF C36 H38 N10 O6

PAGE 1-A



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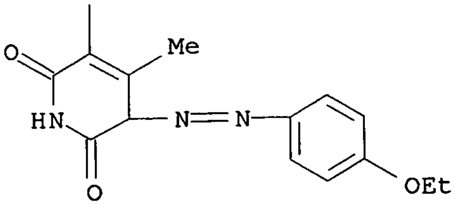
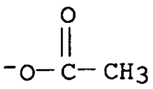


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 71-50-1
CMF C2 H3 O2



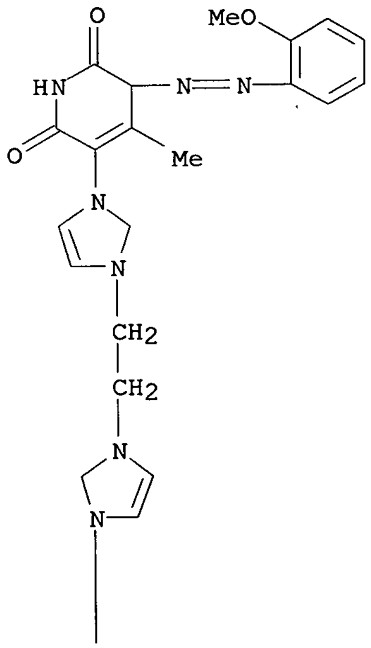
$^{-}O-\overset{\overset{O}{\|}}{C}-CH_3$

RN 143127-12-2 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,2-ethanediyl)bis[3-[1,2,5,6-tetrahydro-5-[(2-methoxyphenyl)azo]-4-methyl-2,6-dioxo-3-pyridinyl]-, diacetate (9CI) (CA INDEX NAME)

CM 1

CRN 143127-11-1
CMF C34 H34 N10 O6

PAGE 1-A



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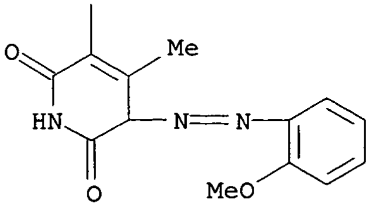
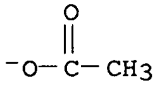


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 71-50-1
CMF C2 H3 O2


$^{-}O-\overset{\overset{\displaystyle O}{\|}}{C}-CH_3$

RN 143127-14-4 CAPLUS
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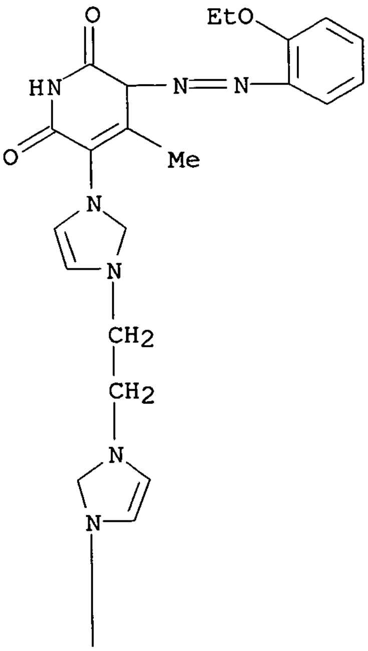
CM 1

CRN 143127-13-3
CMF C36 H38 N10 O6

PAGE 1-A



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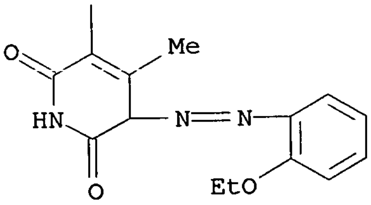
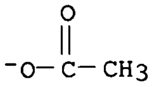


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 71-50-1
CMF C2 H3 O2



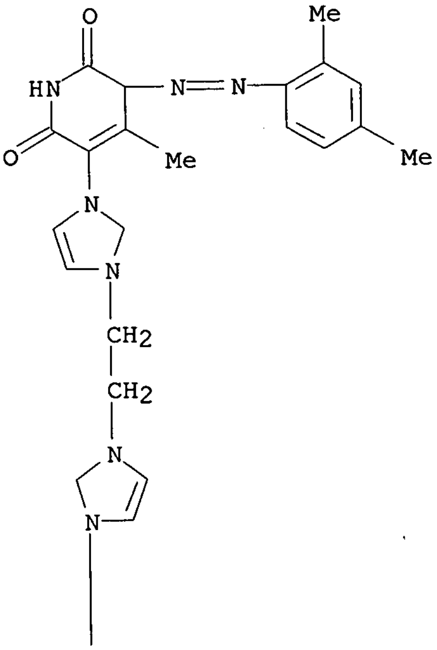
$$^{-}O-\overset{\overset{\displaystyle O}{\|}}{C}-CH_3$$

RN 143127-18-8 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,2-ethanediyl)bis[3-[5-[(2,4-dimethylphenyl)azo]-1,2,5,6-tetrahydro-4-methyl-2,6-dioxo-3-pyridinyl]-, diacetate (9CI) (CA INDEX NAME)

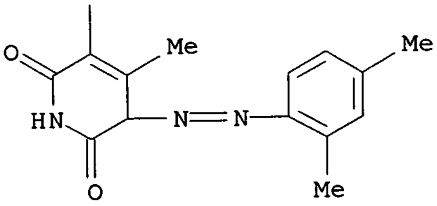
CM 1

CRN 143127-17-7
CMF C36 H38 N10 O4

PAGE 1-A



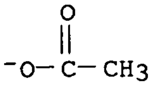
PAGE 2-A



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 71-50-1
CMF C2 H3 O2



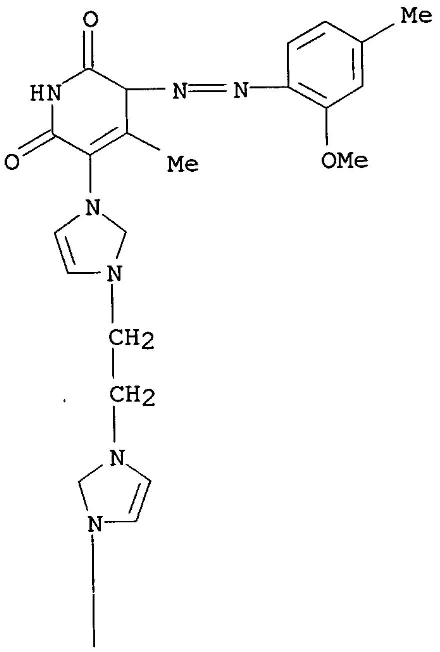
$^{-}O-C(=O)-CH_3$

RN 143127-20-2 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,2-ethanediyl)bis[3-[1,2,5,6-tetrahydro-5-[(2-methoxy-4-methylphenyl)azo]-4-methyl-2,6-dioxo-3-pyridinyl]-, diacetate (9CI) (CA INDEX NAME)

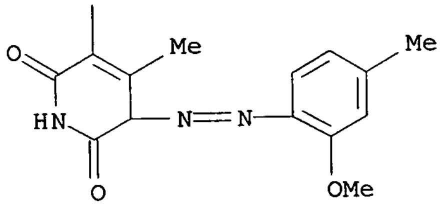
CM 1

CRN 143127-19-9
CMF C36 H38 N10 O6

PAGE 1-A



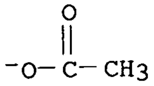
PAGE 2-A



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 71-50-1
CMF C2 H3 O2



$^{-}O-C(=O)-CH_3$

RN 143127-22-4 CAPLUS

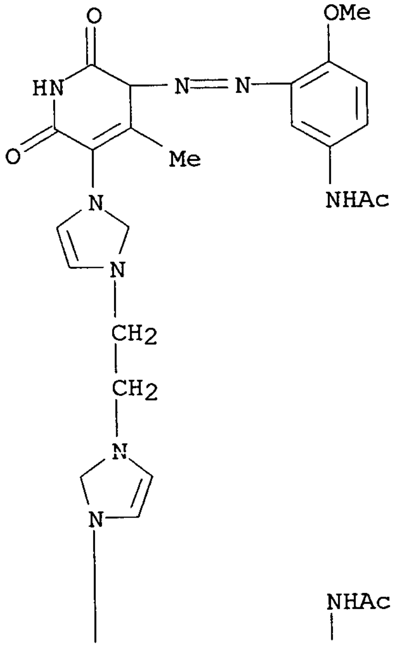
CN 1H-Imidazolium, 1,1'-(1,2-ethanediyl)bis[3-[5-[[5-(acetylamino)-2-methoxyphenyl]azo]-1,2,5,6-tetrahydro-4-methyl-2,6-dioxo-3-pyridinyl]-, diacetate (9CI) (CA INDEX NAME)

CM 1

CRN 143127-21-3

CMF C38 H40 N12 O8

PAGE 1-A



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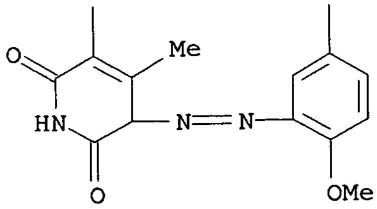
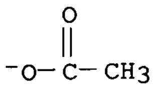


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

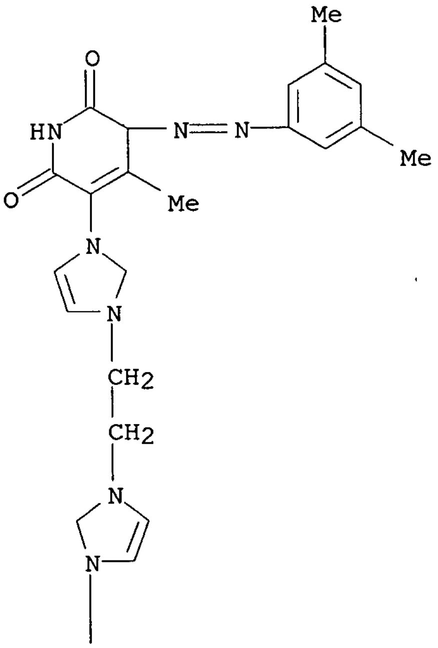
CRN 71-50-1
CMF C2 H3 O2



$^{-}O-C(=O)-CH_3$

RN 143127-37-1 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,2-ethanediyl)bis[3-[5-[(3,5-dimethylphenyl)azo]-1,2,5,6-tetrahydro-4-methyl-2,6-dioxo-3-pyridinyl]- (9CI) (CA INDEX NAME)

PAGE 1-A



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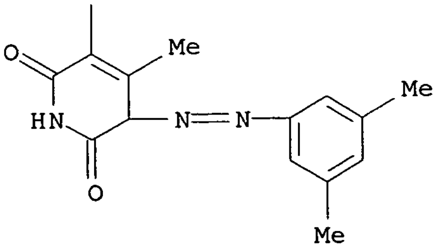


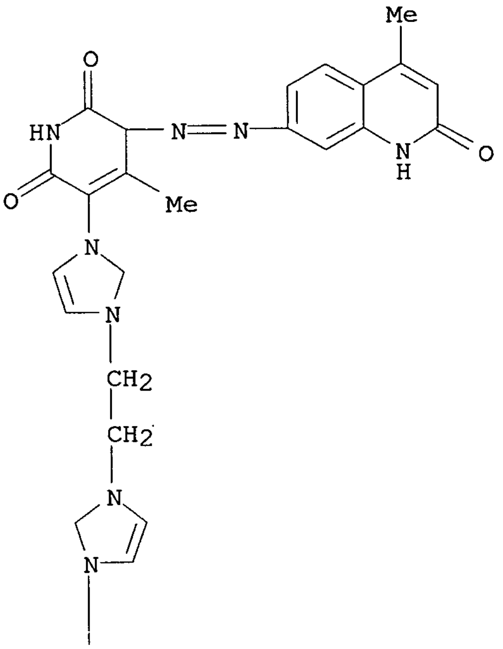
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 143127-44-0 CAPLUS

CN 1H-Imidazolium, 1,1'-(1,2-ethanediyl)bis[3-[5-[(1,2-dihydro-4-methyl-2-oxo-7-quinolinyl)azo]-1,2,5,6-tetrahydro-4-methyl-2,6-dioxo-3-pyridinyl]-, diacetate (9CI) (CA INDEX NAME)

CM 1

CRN 143127-43-9
CMF C40 H36 N12 O6

PAGE 1-A



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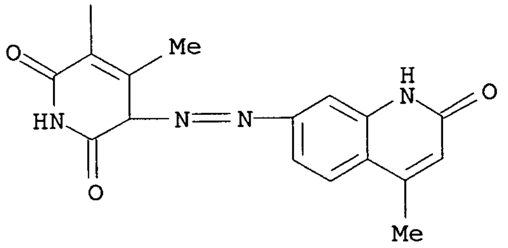
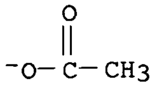


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 71-50-1
CMF C2 H3 O2



$^{-}O-C(=O)-CH_3$

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RE.CNT  3      THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
               ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8    ANSWER 2 OF 4  CAPLUS  COPYRIGHT 2006 ACS on STN
AN    2000:493061  CAPLUS
DN    133:109631
TI    Use of cationic bis-nitrobenzenes for dyeing of keratinic fibers
IN    Genet, Alain; Lagrange, Alain
PA    L'oreal, Fr.
SO    Eur. Pat. Appl., 36 pp.
      CODEN: EPXXDW
DT    Patent
LA    French
FAN.CNT 1
      PATENT NO.          KIND   DATE         APPLICATION NO.         DATE
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      EP 1020176           A3    20010307
          R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, LV, FI, RO
      FR 2788220           A1    20000713     FR 1999-149             19990108
      FR 2788220           B1    20010216
      US 6468316           B1    20021022     US 2000-479080          20000107
      JP 2000204026        A2    20000725     JP 2000-3067            20000111
      JP 2004263194        A2    20040924     JP 2004-171671          20040609
PRAI  FR 1999-149          A     19990108
      JP 2000-3067         A3    20000111
OS    MARPAT 133:109631
AB    Cationic bis-nitrobenzenes are used for dyeing of keratinic fibers, e.g.
      hair.  A solution of 150.2 g of 3-imidazol-1-yl-propylamine and 139.4 mL
      triethylamine in 200 mL dioxane was heated followed by addition of 141.1 g of
      1-fluoro-4-nitrobenzene over 30 min and heating at 90-95° for 2 h
      to obtain (3-imidazol-1-yl-propyl)-(4-nitrophenyl)amine (I).  A mixture of
      4.6 g I and 6.45 g 1,3-dichloropropane in 100 mL toluene was refluxed for
      8 h to obtain 1,3-bis[(nitrophenylaminopropyl)imidazolium]propanol (II).
      A hair dye composition contained II 0.311, hydroxyethyl cellulose 0.72, benzyl
      alc. 4, polyethylene glycol 6, Oramix CG-110 4.5, and phosphate
      buffer q.s. 100%.
IT    220241-97-4P 220242-07-9P 284034-86-2P
      284035-05-8P 284035-07-0P 284035-08-1P
      RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL
      (Biological study); PREP (Preparation); USES (Uses)
         (use of cationic bis-nitrobenzenes for dyeing of keratinic fibers)
RN    220241-97-4  CAPLUS
CN    1H-Imidazolium, 1,1'-(1,3-propanediyl)bis[3-[3-[(4-
      nitrophenyl)amino]propyl]-, dichloride (9CI)  (CA INDEX NAME)
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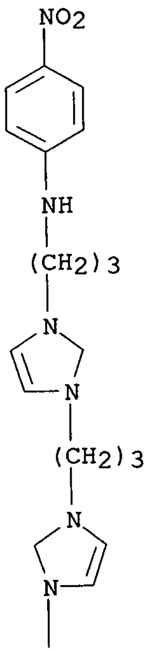
PAGE 1-A



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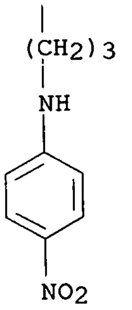
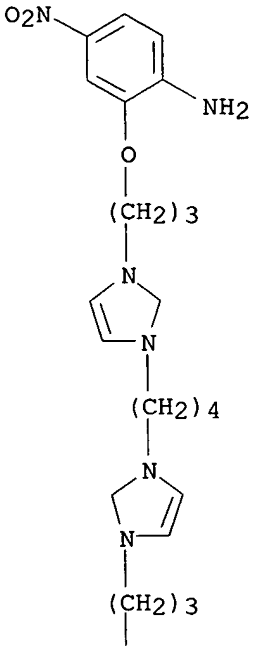


● 2 Cl^-

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 220242-07-9 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,4-butanediyl)bis[3-[3-(2-amino-5-nitrophenoxy)propyl]-, dichloride (9CI) (CA INDEX NAME)

PAGE 1-A



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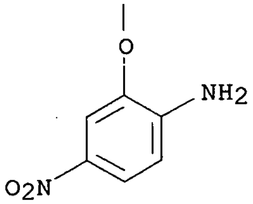
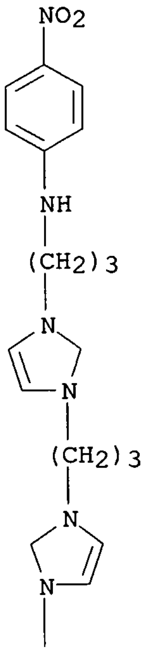


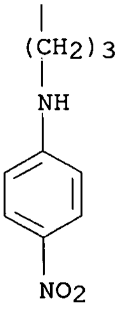
●2 Cl^-

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 284034-86-2 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,3-propanediyl)bis[3-[3-[(4-nitrophenyl)amino]propyl]-, dibromide (9CI) (CA INDEX NAME)

PAGE 1-A



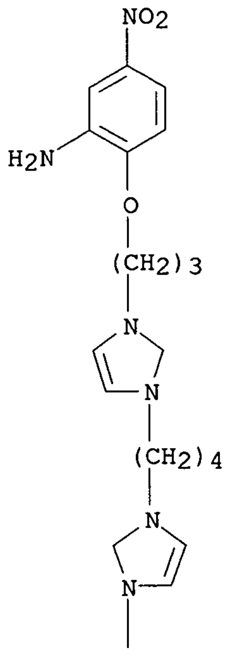
PAGE 2-A



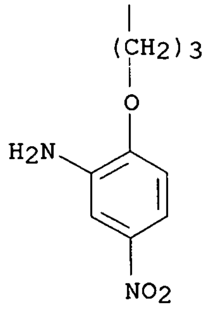
●2 Br^-

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 284035-05-8 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,4-butanediyl)bis[3-[3-(2-amino-4-nitrophenoxy)propyl]-, dichloride (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



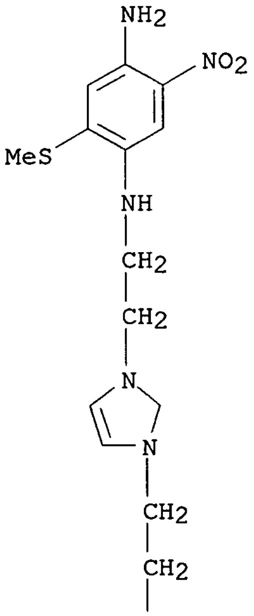
●2 Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 284035-07-0 CAPLUS

CN 1H-Imidazolium, 1,1'-(1,2-ethanediyl)bis[3-[2-[[4-amino-2-(methylthio)-5-nitrophenyl]amino]ethyl]-, dibromide (9CI) (CA INDEX NAME)

PAGE 1-A



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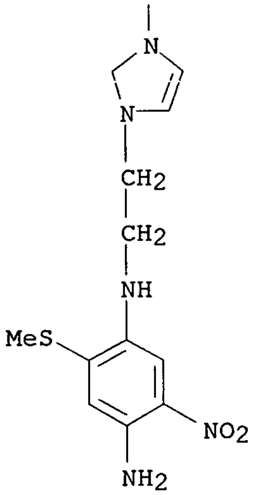


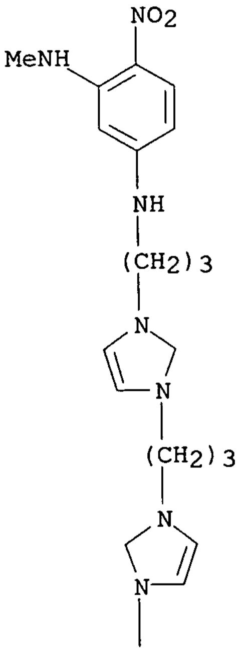
●2 Br$^-$

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 284035-08-1 CAPLUS

CN 1H-Imidazolium, 1,1'-(1,3-propanediyl)bis[3-[3-[[3-(methylamino)-4-nitrophenyl]amino]propyl]-, dichloride (9CI) (CA INDEX NAME)

PAGE 1-A



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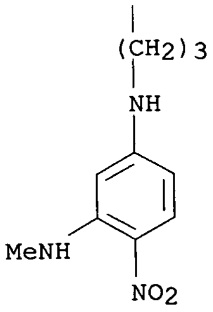


●2 Cl$^-$

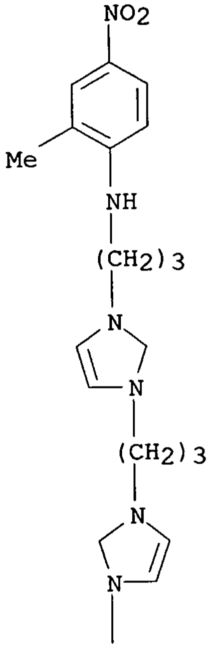
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

IT **220241-95-2P 220242-00-2P 284034-90-8P**
284034-92-0P 284035-00-3P 284035-01-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(use of cationic bis-nitrobenzenes for dyeing of keratinic fibers)

RN 220241-95-2 CAPLUS

CN 1H-Imidazolium, 1,1'-(1,3-propanediyl)bis[3-[3-[(2-methyl-4-nitrophenyl)amino]propyl]-, dichloride (9CI) (CA INDEX NAME)

PAGE 1-A



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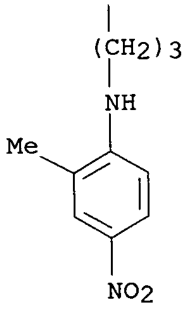
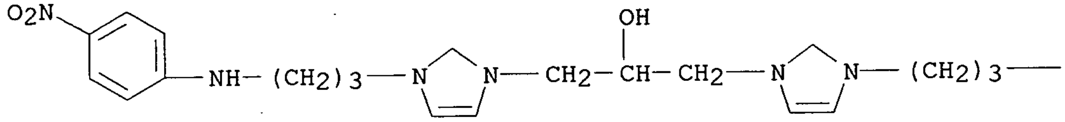


●2 Cl^-

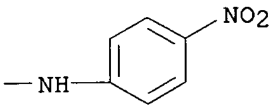
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 220242-00-2 CAPLUS
CN 1H-Imidazolium, 1,1'-(2-hydroxy-1,3-propanediyl)bis[3-[3-[(4-nitrophenyl)amino]propyl]-, dichloride (9CI) (CA INDEX NAME)

PAGE 1-A



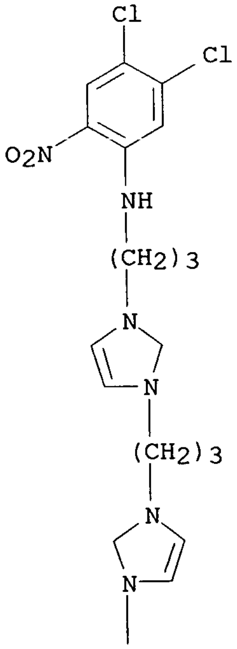
●2 Cl$^-$

PAGE 1-B



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 284034-90-8 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,3-propanediyl)bis[3-[3-[(4,5-dichloro-2-nitrophenyl)amino]propyl]-, dichloride (9CI) (CA INDEX NAME)

PAGE 1-A



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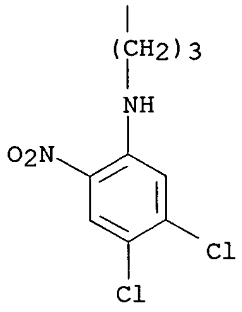
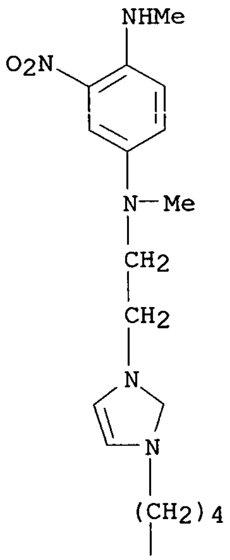


●2 Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 284034-92-0 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,4-butanediyl)bis[3-[2-[methyl[4-(methylamino)-3-nitrophenyl]amino]ethyl]-, dichloride (9CI) (CA INDEX NAME)

PAGE 1-A



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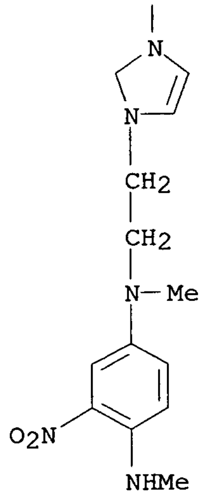
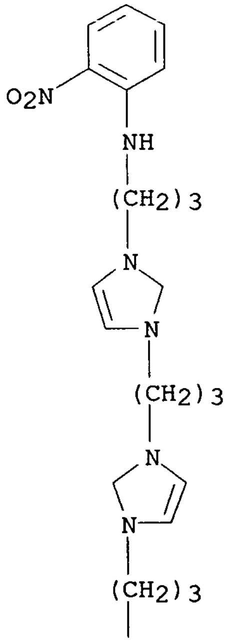


● 2 Cl^-

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 284035-00-3 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,3-propanediyl)bis[3-[3-[(2-nitrophenyl)amino]propyl]-, dibromide (9CI) (CA INDEX NAME)

PAGE 1-A



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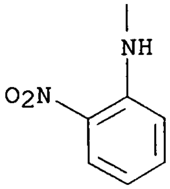
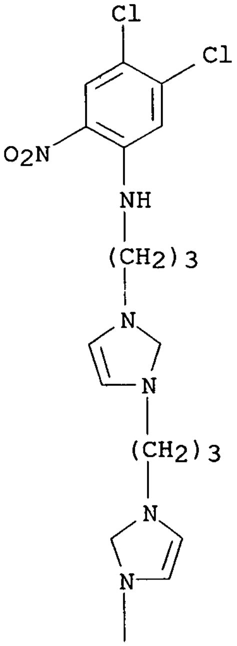


●2 Br⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 284035-01-4 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,3-propanediyl)bis[3-[3-[(4,5-dichloro-2-nitrophenyl)amino]propyl]-, dibromide (9CI) (CA INDEX NAME)

PAGE 1-A



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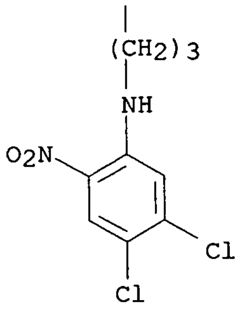

●2 Br^{-}

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

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L8   ANSWER 3 OF 4  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   1997:640647  CAPLUS
DN   127:318962
TI   Process for generating heterocyclic carbenes
IN   Herrmann, Wolfgang A.; Kocher, Christian; Goossen, Lukas
PA   Hoechst A.-G., Germany; Herrmann, Wolfgang A.; Kocher, Christian; Goossen,
     Lukas
SO   PCT Int. Appl., 53 pp.
     CODEN: PIXXD2
DT   Patent
LA   German
FAN.CNT 1
     PATENT NO.          KIND    DATE        APPLICATION NO.        DATE
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PI   WO 9734875           A1     19970925    WO 1997-EP1296         19970314
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         RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
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     ZA 9702198           A      19970917    ZA 1997-2198           19970313
     CA 2250086           AA     19970925    CA 1997-2250086        19970314
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     AU 710591            B2     19990923
     EP 888308            A1     19990107    EP 1997-915369         19970314
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI
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     JP 2000507239        T2     20000613    JP 1997-533129         19970314
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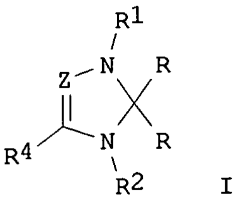
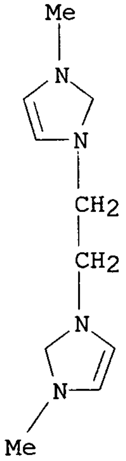


AB Title carbenes [I; RR = electron pair; Z = N or CR3; R1-R4 = (ar)alkyl, aryl, etc.] were generated by deprotonation of I.A (A = halide, borate, **phosphate**, etc.; 1 of R = H and the other = pos. charge) in, e.g., liquid NH3. Thus, 1-methylimidazole was N-alkylated by MeI and the product treated with NaH in THF/NH3(liquid) to give, after NH3 evaporation and filtration, a THF solution of the carbene which was used to prepare chloro(η4-1,5-cyclooctadiene)(1,3-dimethylimidazolin-2-ylidene)rhodium(I).

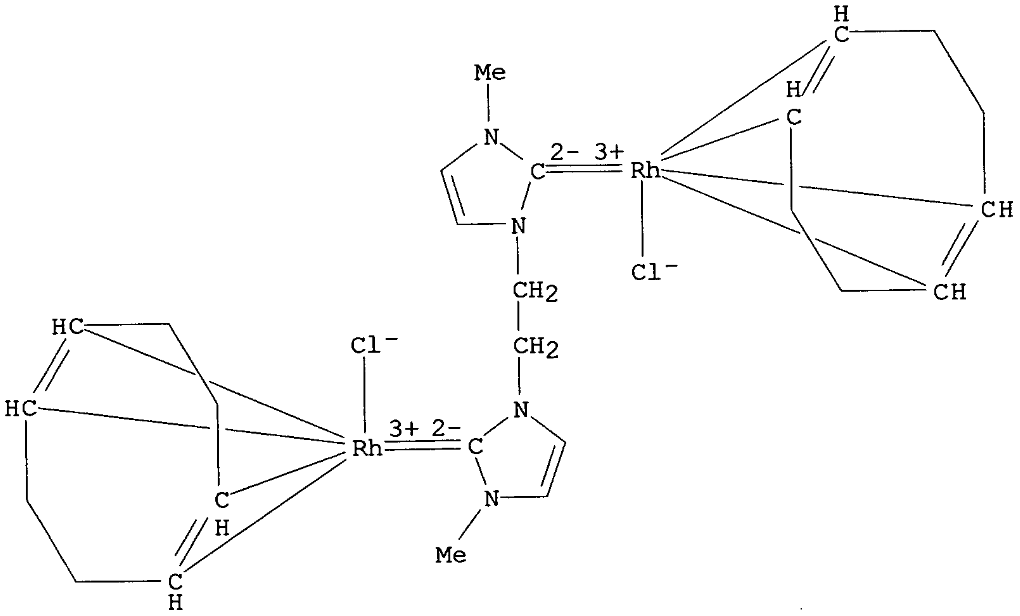
IT **179863-08-2P**
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(process for generating heterocyclic carbenes)
RN 179863-08-2 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,2-ethanediyl)bis[3-methyl-, dibromide (9CI) (CA INDEX NAME)



●2 Br⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
IT **179862-94-3P**
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(process for generating heterocyclic carbenes)
RN 179862-94-3 CAPLUS
CN Rhodium, dichlorobis[(1,2,5,6-η)-1,5-cyclooctadiene][μ-[1,2-ethanediylbis(3-methyl-1H-imidazol-1-yl-2(3H)-ylidene)]]di- (9CI) (CA

INDEX NAME)



L8 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1976:91587 CAPLUS
DN 84:91587
TI Flameproofing organic fiber material
IN Loss, Rudolf; Berini, Rene; Hiestand, Armin; Hofmann, Peter; Nachbur, Hermann
PA Ciba-Geigy A.-G., Switz.
SO S. African, 120 pp.
CODEN: SFXXAB
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	---------------	----	--------	--------------------	--------
PI	ZA 7309239	A	19741030	ZA 1973-9239	19731205
PRAI	ZA 1973-9239	A	19731205		

GI For diagram(s), see printed CA Issue.

AB Cotton and cotton-polyester fabrics are flameproofed with compns. containing a tetrakis(hydroxymethyl)phosphonium compound, its self condensation product, or its condensation product with a reactive N compound, a N-containing softener, a water-soluble 1,3,5-triazine with 2-4 methylolated amino groups, and, optionally, biuret [108-19-0], urea, or methylolureas and aliphatic or heterocyclic amines. Thus, a 67:33 polyester-cotton fabric was padded with a liquor containing an 80% aqueous solution of a tetrakis(hydroxymethyl)phosphonium chloride polymer [27104-29-6] (prepared by self-condensing tetrakis(hydroxymethyl)phosphonium chloride [124-64-1]) 580, the imidazoline softener (I) [13470-50-3] (20% strength) 30, and di-trimethylolmelamine 103 g/l. to a 70% uptake, dried 30 min at 80°, and cured 5 min at 150°. The fabric was then rinsed 5

```
     min at 60° in a liquor containing 5 ml./l. 35% H2O2, 3 g/l. 30% NaOH,
     and 1 g/l. 25% polyethylene glycol p-tert-monylphenyl ether.  After
     rinsing and drying, the amount of product fixed on the fabric was 76%
     (relative to the amount originally absorbed.).  After forty 45 min washes at
     60° the fabric had burn time 0 sec and tear length 9 cm.
IT   53659-24-8
     RL: USES (Uses)
        (fireproofing agents, for cotton and cotton-polyester textiles)
RN   53659-24-8  CAPLUS
CN   1H-Imidazolium, 1,1'-(1,2-ethanediyl)bis[4,5-dihydro-1-methyl-2-undecyl-,
     dichloride (9CI)  (CA INDEX NAME)
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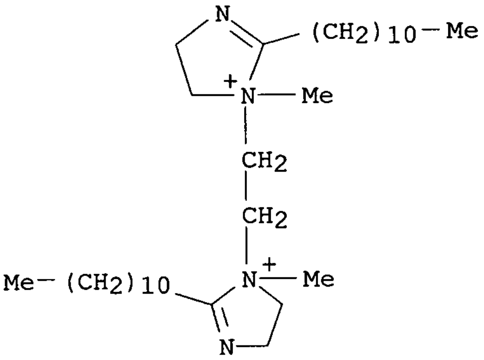

●2 Cl^-

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=> dis his

     (FILE 'HOME' ENTERED AT 08:48:16 ON 06 JAN 2006)

     FILE 'REGISTRY' ENTERED AT 08:48:27 ON 06 JAN 2006
L1                SCREEN 2040
L2                STRUCTURE UPLOADED
L3             44 S L1 AND L2
L4            953 S L1 AND L2 FULL
                  E HEXAFLUOROPHOSPHATE/CN
L5              1 S E5
L6              0 S L4 AND L5

     FILE 'CAPLUS' ENTERED AT 08:50:57 ON 06 JAN 2006
L7              0 S L4 AND L5
L8              4 S L4 AND PHOSPHATE

=> s l4 and method
           230 L4
       3002331 METHOD
L9          18 L4 AND METHOD

=> s l8 and virus
        331901 VIRUS
```

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L10         0 L8 AND VIRUS

=> dis l9 1-18 bib abs hitstr

L9   ANSWER 1 OF 18  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2005:514310  CAPLUS
DN   143:187978
TI   Gas-Phase Ion Association Provides Increased Selectivity and Sensitivity
     for Measuring Perchlorate by Mass Spectrometry
AU   Martinelango, P. Kalyani; Anderson, Jared L.; Dasgupta, Purnendu K.;
     Armstrong, Daniel W.; Al-Horr, Rida S.; Slingsby, Rosanne W.
CS   Department of Chemistry and Biochemistry, Texas Tech University, Lubbock,
     TX, 79409-1061, USA
SO   Analytical Chemistry (2005), 77(15), 4829-4835
     CODEN: ANCHAM; ISSN: 0003-2700
PB   American Chemical Society
DT   Journal
LA   English
AB   Perchlorate (ClO4-) competitively inhibits the uptake of iodide by the
     thyroid gland.  Trace quantities of perchlorate are being increasingly
     detected in food and environmental samples.  There is great concern that
     perchlorate contamination may be far more widespread than believed until
     now.  Increasingly sensitive and unambiguous methods are needed for
     measuring perchlorate.  We report here an ion chromatog.-ion
     association-electrospray ionization-mass spectrometry (IC/IA-ESI-MS)
     method of substantially greater selectivity and sensitivity than
     other available single-stage MS approaches.  A long chain dipos. cationic
     agent (D2+) is added postcolumn in low concentration  This ion assocs. with
     perchlorate, even in the gas phase.  Perchlorate is, thus, detected as
     DClO4+ in the pos. ion mode at an m/z value between 300 and 400 (depending
     on the choice of D2+).  This results in much better S/N and selectivity,
     as compared to detecting 35ClO4- at m/z 99, where H34SO4- also responds.
     We show results for various dicationic agents which vary in their
     selectivity and affinity for ClO4-, typically being at least 1 order of
     magnitude more selective for ClO4- over HSO4-.  For a 100-μL injected
     standard, limits of detection (LOD, S/N = 3) are as good as 25 ng/L on a
     single quadrupole mass spectrometer.  Calibration for concns. up to 100
     μg/L displays an r2 value of ≥0.9993.  We show applicability to
     various real samples.  A number of the studied reagents are suitable for such
     applications.
IT   69445-28-9 349081-22-7 844468-65-1
     844468-74-2 844468-83-3
     RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
        (gas-phase ion association provides increased selectivity and sensitivity
        for measuring perchlorate by mass spectrometry)
RN   69445-28-9  CAPLUS
CN   1H-Imidazolium, 1,1'-(1,3-propanediyl)bis[3-methyl-, dibromide (9CI)  (CA
     INDEX NAME)
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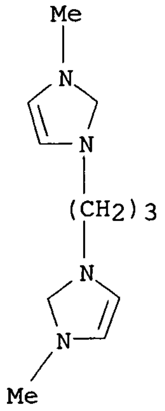
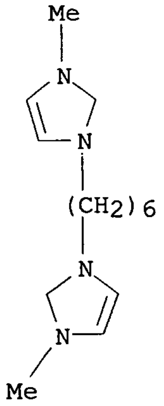


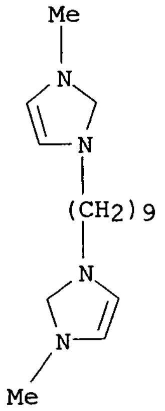
●2 Br^-

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 349081-22-7 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,6-hexanediyl)bis[3-methyl-, dibromide (9CI) (CA INDEX NAME)



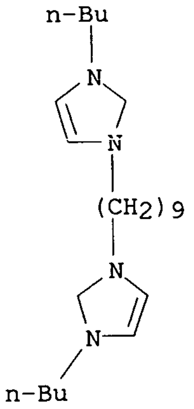
●2 Br^-

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 844468-65-1 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,9-nonanediyl)bis[3-methyl-, dibromide (9CI) (CA INDEX NAME)



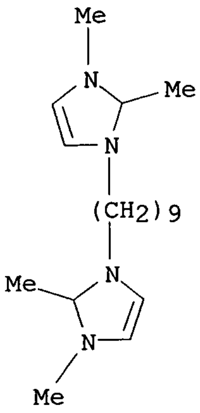
●2 Br⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 844468-74-2 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,9-nonanediyl)bis[3-butyl-, dibromide (9CI) (CA INDEX NAME)



●2 Br⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 844468-83-3 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,9-nonanediyl)bis[2,3-dimethyl-, dibromide (9CI) (CA INDEX NAME)



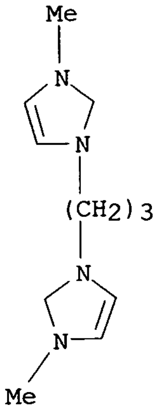
●2 Br$^-$

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:1080690 CAPLUS
DN 142:38249
TI Preparation of diamine disalt organic compounds having anti-viral activity
IN Lo, Li-Ching; Ho, Wen-Yueh; Chen, Lien-Tai
PA Industrial Technology Research Institute, Taiwan
SO U.S. Pat. Appl. Publ., 7 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004254147	A1	20041216	US 2003-677218	20031003
	CN 1566094	A	20050119	CN 2003-146559	20030707
	JP 2005002088	A2	20050106	JP 2003-364894	20031024
PRAI	TW 2003-92116094	A	20030613		

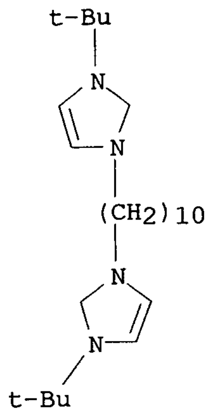
OS MARPAT 142:38249
AB Organic disalt compds. [e.g., 1,1'-glycerylbis(3-methylimidazolium) dibromide, prepared by the reaction of 1-methylimidazole with 1,3-dibromopropane] are prepared which have anti-viral activity and the **method** for antagonizing viruses in-vitro is by putting these compds. in contact with the virus (e.g., enterovirus).
IT **69445-28-9P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of diamine disalt organic compds. having anti-viral activity)
RN 69445-28-9 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,3-propanediyl)bis[3-methyl-, dibromide (9CI) (CA INDEX NAME)



●2 Br⁻

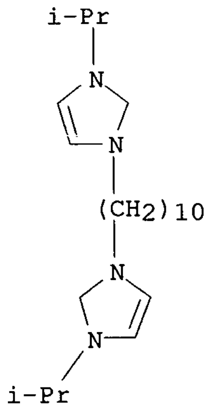
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L9 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:763292 CAPLUS
DN 142:240371
TI Synthesis of new ionic liquids
AU Liu, Jing-Ping; Ren, Zhou-Yang; Zhao, Yuan-Hong; Zhang, Hong-Bin
CS School of Pharmacy, Yunnan University, Kunming, 650091, Peop. Rep. China
SO Youji Huaxue (2004), 24(9), 1091-1094
CODEN: YCHHDX; ISSN: 0253-2786
PB Kexue Chubanshe
DT Journal
LA Chinese
OS CASREACT 142:240371
AB 1-Alkyl substituted imidazoles were synthesized by reaction of alkyl amines with glyoxal, formaldehyde and ammonia in methanol. This **method** has the advantages of high yields and easiness to handle. Didentate ionic liqs. synthesized by using 1-alkylimidazoles are potential environmentally benign solvents as well as catalysts for coupling reactions. All compds. were confirmed by IR, 1H NMR, 13C NMR spectra and HRMS or GC-MS.
IT **844658-94-2P 844658-96-4P 844658-98-6P**
844659-00-3P 844659-02-5P 844659-04-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of alkylimidazolium ionic liqs.)
RN 844658-94-2 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,10-decanediyl)bis[3-(1,1-dimethylethyl)-, dibromide (9CI) (CA INDEX NAME)



●2 Br⁻

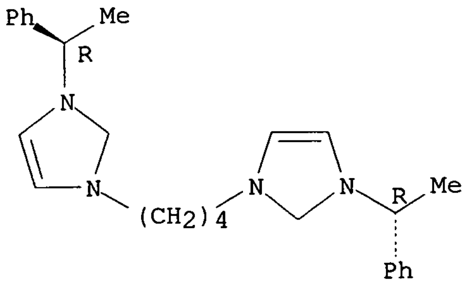
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 844658-96-4 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,10-decanediyl)bis[3-(1-methylethyl)-, dibromide
(9CI) (CA INDEX NAME)



●2 Br⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 844658-98-6 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,4-butanediyl)bis[3-[(1R)-1-phenylethyl]-,
dibromide (9CI) (CA INDEX NAME)

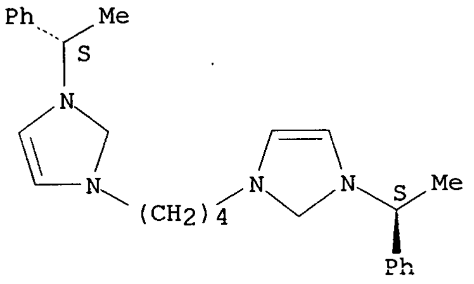
Absolute stereochemistry.



●2 Br⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 844659-00-3 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,4-butanediyl)bis[3-[(1S)-1-phenylethyl]-, dibromide (9CI) (CA INDEX NAME)

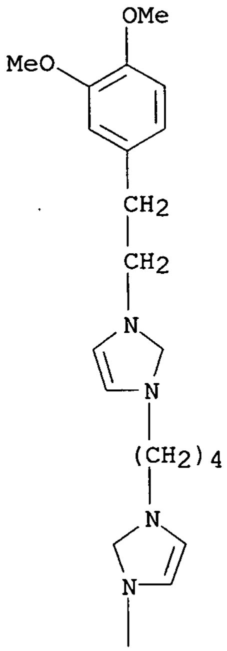
Absolute stereochemistry.



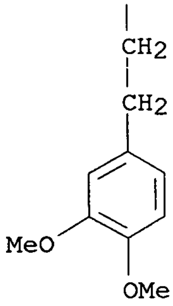
●2 Br⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 844659-02-5 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,4-butanediyl)bis[3-[2-(3,4-dimethoxyphenyl)ethyl]-, dibromide (9CI) (CA INDEX NAME)

PAGE 1-A

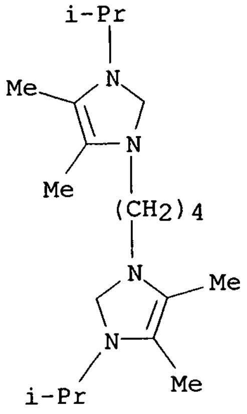


PAGE 2-A



● 2 Br$^-$

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 844659-04-7 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,4-butanediyl)bis[4,5-dimethyl-3-(1-methylethyl)-, dibromide (9CI) (CA INDEX NAME)



●2 Br$^-$

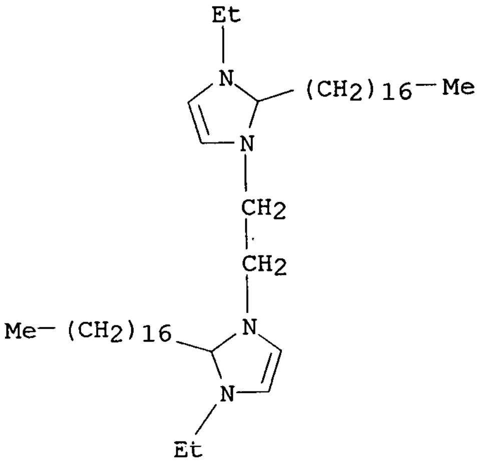
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L9 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:373388 CAPLUS
DN 141:106070
TI Supramolecular Assemblies between a New Series of Gemini-Type Amphiphiles and TPPS at the Air/Water Interface: Aggregation, Chirality, and Spacer Effect
AU Zhai, Xiaodong; Zhang, Li; Liu, Minghua
CS CAS Key Laboratory of Colloid and Interface Science, Institute of Chemistry, Chinese Academy of Sciences, 100080, Peop. Rep. China
SO Journal of Physical Chemistry B (2004), 108(22), 7180-7185
CODEN: JPCBFK; ISSN: 1520-6106
PB American Chemical Society
DT Journal
LA English
AB Supramol. assemblies between novel gemini amphiphiles (BisImC17Cn) and TPPS (tetrakis(4-sulfonatophenyl)porphine) at the air/water interface were studied. The gemini amphiphiles could form stable complex monolayers at the air/water interface with TPPS through electrostatic interaction and π-π stacking. There is an inflection point in each of the surface pressure-area isotherms of the complex monolayers. At a certain pH value of the subphase, TPPS could complex with the gemini amphiphiles as a J-aggregate. AFM measurements revealed that nanofibers were formed in the transferred films onto solid substrates by a horizontal lifting **method**. All the complex films containing the J-aggregate of TPPS showed CD signals in the J-band although both of the amphiphiles and TPPS were achiral. Helical stacking of the TPPS underneath the gemini monolayers probably is responsible for the supramol. chirality of the multilayer films. The spacers in the gemini amphiphiles have great influence on the chirality of the system. For the film transferred at a surface pressure below the inflection point, the CD signals showed splitting only when the spacer length is larger than four methylene units. The films transferred at the surface pressure above the inflection points showed splitting CD signals of the Soret band of J-aggregates, which could be ascribed to the interaction between the J-aggregates. Also, for the

film transferred above the inflection points, the CD intensity of the films decreased when the spacer length of the gemini amphiphile increased. Further many properties such as the width and thickness of the formed nanofibers showed a turning point at a spacer length of six methylene units. A mechanism including the convex of the spacers when they were larger than six methylenes was proposed.

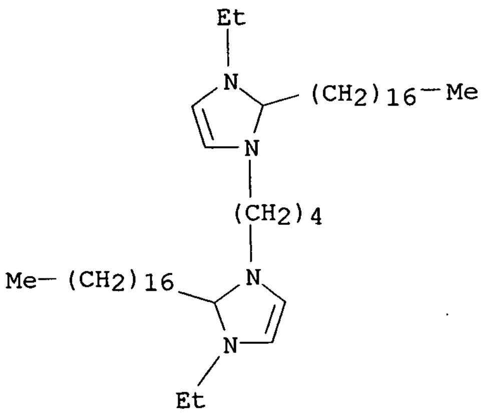
IT **719296-09-0 719296-14-7 719296-17-0**
719296-20-5 719296-23-8
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP (Physical process); PROC (Process)
(aggregation, chirality, and spacer effect on supramol. assemblies between series of gemini-type amphiphiles and TPPS at air/water interface)

RN 719296-09-0 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,2-ethanediyl)bis[3-ethyl-2-heptadecyl-, dibromide (9CI) (CA INDEX NAME)



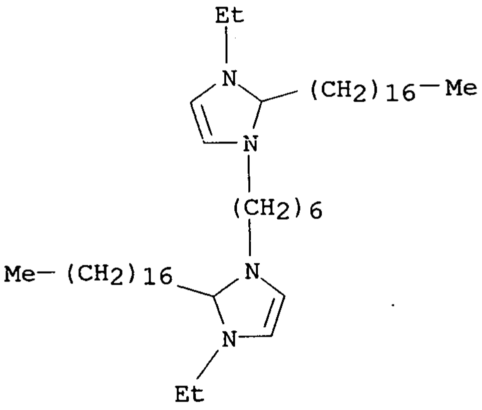
●2 Br^-

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 719296-14-7 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,4-butanediyl)bis[3-ethyl-2-heptadecyl-, dibromide (9CI) (CA INDEX NAME)



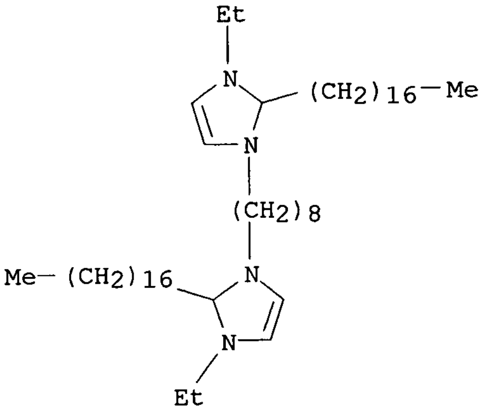
●2 Br⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 719296-17-0 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,6-hexanediyl)bis[3-ethyl-2-heptadecyl-, dibromide
(9CI) (CA INDEX NAME)



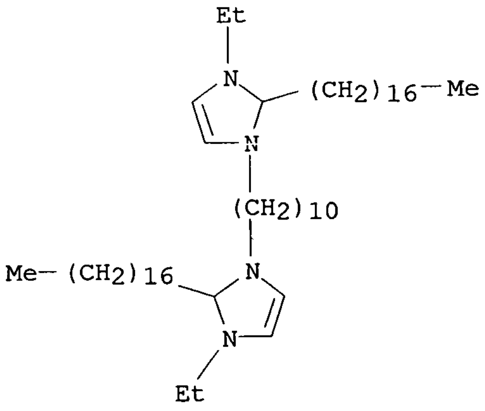
●2 Br⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 719296-20-5 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,8-octanediyl)bis[3-ethyl-2-heptadecyl-, dibromide
(9CI) (CA INDEX NAME)



●2 Br⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 719296-23-8 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,10-decanediyl)bis[3-ethyl-2-heptadecyl-, dibromide (9CI) (CA INDEX NAME)



●2 Br⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RE.CNT 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:104612 CAPLUS
DN 140:331291
TI Four new coordination polymers of Cu(II) with 1,1'-(1,4-butanediyl)bis(imidazole)

AU Ma, Jian-Fang; Yang, Jin; Zheng, Guo-Li; Li, Li; Zhang, Yong-Mei; Li, Fang-Fang; Liu, Jing-Fu

CS Department of Chemistry, Northeast Normal University, Changchun, 130024, Peop. Rep. China

SO Polyhedron (2004), 23(4), 553-559
CODEN: PLYHDE; ISSN: 0277-5387

PB Elsevier

DT Journal

LA English

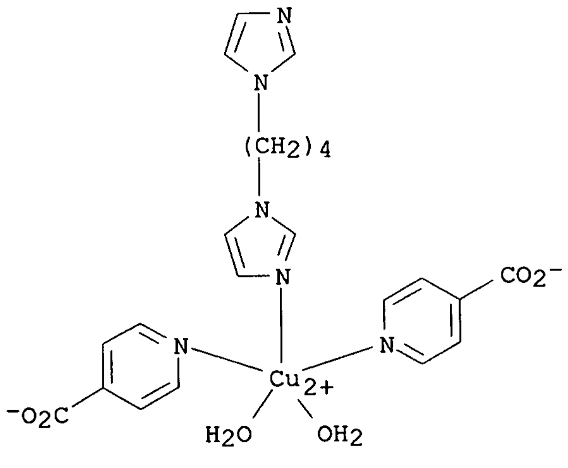
OS CASREACT 140:331291

AB Four new complexes, [CuL(IN)2(H2O)2]·4H2O (1), [CuL2(H2O)]Cl2·5H2O (2), [CuL2(H2O)](NO3)2·H2O (3) and [CuL2]SO4·8H2O (4), where IN = isonicotinate anion, were obtained from self-assembly of the corresponding Cu(II) salts with 1,1'-(1,4-butanediyl)bis(imidazole) (L), and their structures were determined by x-ray diffraction **method**. In complex 1, each Cu(II) cation is six-coordinated by two H2O mols. and four N atoms from two L mols. and two isonicotinate anions. Each L mol. coordinates to two Cu(II) cations, acting as a bridging ligand. The Cu(II) cations are bridged by L to form an infinite zigzag chain structure. In complexes 2 and 3, the Cu(II) cation is five-coordinated by one H2O mol. and four N atoms from four L mols. In 4 the Cu(II) cation is four-coordinated by four N atoms from four L mols. Cu(II) cations are bridged by L ligands to form infinite (4,4) networks that contain 44-membered rings in 2, 3 and 4. No interpenetration occurs in 2 and 3, while in 4 two (4,4) networks are interpenetrated in parallel fashion to form a layer.

IT **678141-30-5P 678141-33-8P 678141-39-4P**
678141-43-0P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(coordination polymer; preparation and crystal structure of)

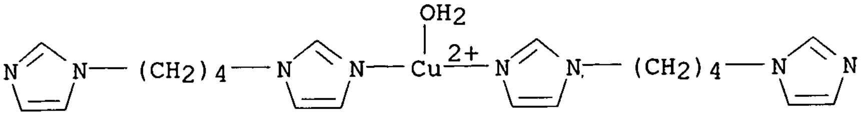
RN 678141-30-5 CAPLUS

CN Copper, diaqua[1-[4-(1H-imidazol-1-yl)butyl]-1H-imidazole-κN3]bis(4-pyridinecarboxylato-κN1)-, tetrahydrate, (SP-5-21)- (9CI) (CA INDEX NAME)



● 4 H2O

RN 678141-33-8 CAPLUS
CN Copper(2+), aquabis[1-[4-(1H-imidazol-1-yl)butyl]-1H-imidazole-κN3]-
, dichloride, pentahydrate (9CI) (CA INDEX NAME)



●2 Cl^-

●5 H_2O

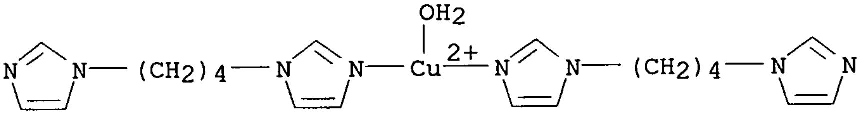
RN 678141-39-4 CAPLUS
CN Copper(2+), aquabis[1-[4-(1H-imidazol-1-yl)butyl]-1H-imidazole-κN3]-
, dinitrate, monohydrate (9CI) (CA INDEX NAME)

CM 1

CRN 678141-38-3
CMF C20 H30 Cu N8 O . 2 N O3

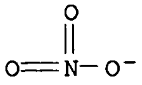
CM 2

CRN 678141-37-2
CMF C20 H30 Cu N8 O
CCI CCS



CM 3

CRN 14797-55-8
CMF N O3



$$O{=}N({=}O){-}O^-$$

RN 678141-43-0 CAPLUS
CN Copper(2+), aquabis[1-[4-(1H-imidazol-1-yl)butyl]-1H-imidazole-κN3]-
, sulfate (1:1), octahydrate (9CI) (CA INDEX NAME)

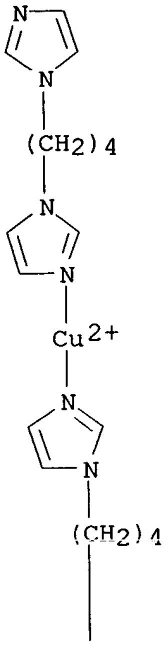
CM 1

CRN 678141-42-9
CMF C20 H28 Cu N8 . O4 S

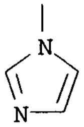
CM 2

CRN 678141-41-8
CMF C20 H28 Cu N8
CCI CCS

PAGE 1-A

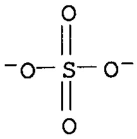


PAGE 2-A



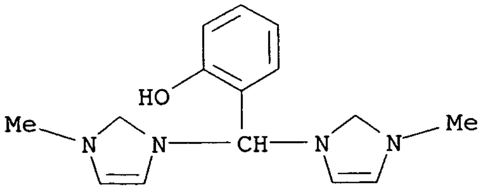
CM 3

CRN 14808-79-8
CMF O4 S



RE.CNT 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2003:995758 CAPLUS
DN 140:164011
TI A New Rhodium(III) Complex with a Tripodal Bis(imidazolylidene) Ligand. Synthesis and Catalytic Properties
AU Mas-Marza, Elena; Poyatos, Macarena; Sanau, Mercedes; Peris, Eduardo
CS Dpto. de Quimica Inorganica y Organica, Universitat Jaume I, Castellon, 12071, Spain
SO Organometallics (2004), 23(3), 323-325
CODEN: ORGND7; ISSN: 0276-7333
PB American Chemical Society
DT Journal
LA English
OS CASREACT 140:164011
AB A new bis(imidazolylidene) tripodal ligand (2-hydroxyphenyl)bis(3-methylimidazolium-1-yl)methane diiodide (1, BIPHOH-H2) has been obtained by a simple **method**. Reaction of 1,1'-carbonylbis-1H-imidazole and salicylaldehyde afforded (2-hydroxyphenyl)bis(imidazolyl)methane (92% yield), which reacted with Me iodide giving 1 (80% yield). The coordination of this ligand to Rh provides the first Rh(III) complex, [(BIPHO)(N-methylimidazole)2RhI]I (2), with a bis(carbene) ligand in a tripodal coordination, and its catalytic properties toward hydrogen transfer have been examined The structure of 2 was determined via single-crystal X-ray crystallog.
IT **656835-46-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation, crystal structure, and catalytic activity of rhodium complexes with a tripodal bis(imidazolylidene) ligand)
RN 656835-46-0 CAPLUS
CN 1H-Imidazolium, 1,1'-[(2-hydroxyphenyl)methylene]bis[3-methyl-, diiodide (9CI) (CA INDEX NAME)



●2 I⁻

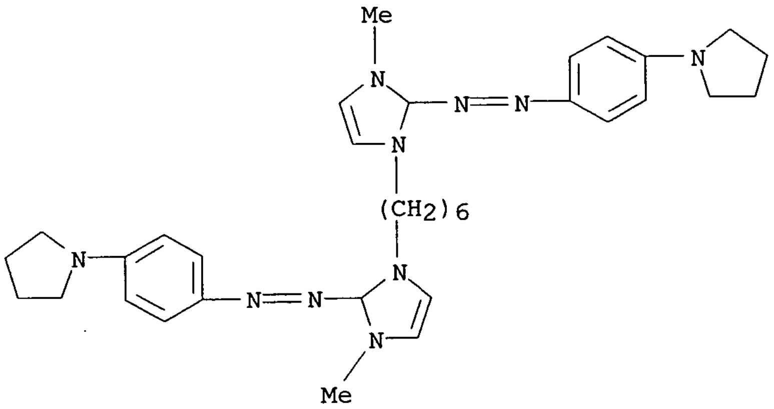
```
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RE.CNT  20     THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
               ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9    ANSWER 7 OF 18  CAPLUS  COPYRIGHT 2006 ACS on STN
AN    2002:777620  CAPLUS
DN    137:283942
TI    Novel dyeing composition for dyeing keratinous fibers comprising a
      particular dicationic diazo dye
IN    Vidal, Laurent; Leduc, Madeleine
PA    L'oreal, Fr.
SO    PCT Int. Appl., 31 pp.
      CODEN: PIXXD2
DT    Patent
LA    French
FAN.CNT 1
      PATENT NO.          KIND   DATE       APPLICATION NO.        DATE
      ---------------     ----   --------   --------------------   --------
PI    WO 2002078596        A2    20021010   WO 2002-FR1137         20020402
      WO 2002078596        A3    20030410
          W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
              CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
              GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
              LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL,
              PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
              US, UZ, VN, YU, ZA, ZW
          RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
              KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB,
              GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA,
              GN, GQ, GW, ML, MR, NE, SN, TD, TG
      FR 2822696           A1    20021004   FR 2001-4469           20010402
      FR 2822696           B1    20050128
      EP 1377263           A2    20040107   EP 2002-724399         20020402
          R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
      CN 1512874           A     20040714   CN 2002-811179         20020402
      BR 2002008768        A     20040803   BR 2002-8768           20020402
      JP 2004536044        T2    20041202   JP 2002-576865         20020402
      US 2004187225        A1    20040930   US 2004-473624         20040227
      US 6884265           B2    20050426
PRAI  FR 2001-4469         A     20010402
      WO 2002-FR1137       W     20020402
OS    MARPAT 137:283942
AB    The invention concerns a novel dyeing composition for dyeing keratinous fibers,
      in particular human hair, comprising a dicationic diazo dye (Markush
      structures given), as well as the dyeing method.  A dicationic
      diazo dye was prepared by the reaction of dimethyl-[4-(pyridin-3-ylazo)-
      phenyl-1]-amine with 1,6-dibromohexane.  A hair dye contained above dye
      5x10-4 mole, ethoxylated polyethylene glycol 12, benzyl alc. 10, and
      borate buffer 100 g.  Equal amts. of the above dye and 20 volume hydrogen
      peroxide are mixed and applied on the hair for 20 min, the hair is then
      rinsed with water, washed with shampoo, rinsed and dried.
IT    467215-53-8P
      RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological
      study); PREP (Preparation); USES (Uses)
         (oxidative hair dyes comprising particular dicationic diazo dye)
RN    467215-53-8  CAPLUS
```

CN 1H-Imidazolium, 1,1'-(1,6-hexanediyl)bis[3-methyl-2-[[4-(1-pyrrolidinyl)phenyl]azo]-, bis(methyl sulfate) (9CI) (CA INDEX NAME)

CM 1

CRN 467215-52-7
CMF C34 H46 N10



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

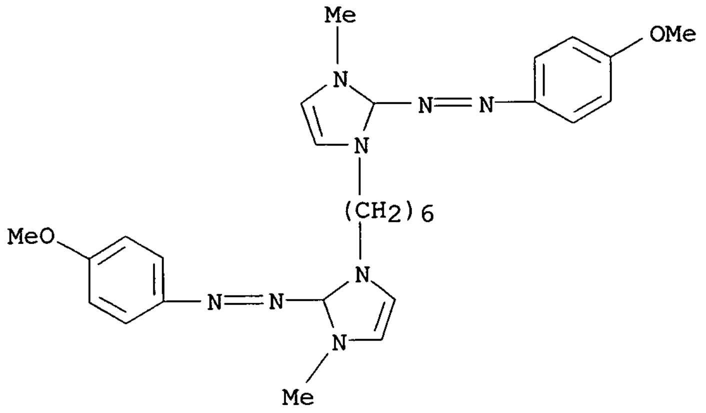
CRN 21228-90-0
CMF C H3 O4 S

$Me-O-SO_3^-$

IT **467215-50-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(oxidative hair dyes comprising particular dicationic diazo dye)
RN 467215-50-5 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,6-hexanediyl)bis[2-[(4-methoxyphenyl)azo]-3-methyl-, bis(methyl sulfate) (9CI) (CA INDEX NAME)

CM 1

CRN 467215-49-2
CMF C28 H36 N8 O2



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ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

     CM   2

     CRN  21228-90-0
     CMF  C H3 O4 S
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Me— O— SO_3^-

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L9   ANSWER 8 OF 18  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2001:319661  CAPLUS
DN   134:336203
TI   Substituted succinic acid metallo-β-lactamase inhibitors, their
     preparation, and their use in treating bacterial infections
IN   Balkovec, James M.; Greenlee, Mark L.; Olson, Steven H.; Rouen, Gregory P.
PA   Merck & Co., Inc., USA
SO   PCT Int. Appl., 129 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.       DATE
     ---------------     ----   --------    --------------------  --------
PI   WO 2001030148        A1    20010503    WO 2000-US29707       20001027
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
             HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU,
             LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD,
             SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU,
             ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
             CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     US 6630510           B1    20031007    US 2000-697415        20001026
     CA 2388076           AA    20010503    CA 2000-2388076       20001027
     EP 1227721           A1    20020807    EP 2000-975454        20001027
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL
```

	JP 2003527332	T2	20030916	JP 2001-532588	20001027
	AU 771274	B2	20040318	AU 2001-13504	20001027
	US 2003078418	A1	20030424	US 2002-99790	20020315
	US 2003207859	A1	20031106	US 2003-339043	20030109
PRAI	US 1999-162370P	P	19991028		
	US 2000-697415	A3	20001026		
	WO 2000-US29707	W	20001027		

OS MARPAT 134:336203

AB Substituted succinic acid metallo-β-lactamase inhibitors are provided which are useful potentiators of β-lactam antibiotics. Accordingly, the invention provides a **method** of treating bacterial infections in animals or humans which comprises administering, together with a β-lactam antibiotic, a therapeutically effective amount of a succinic acid derivative of the invention, or a pharmaceutically acceptable salt, prodrug, anhydride, or solvate thereof.

IT **337906-88-4**

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

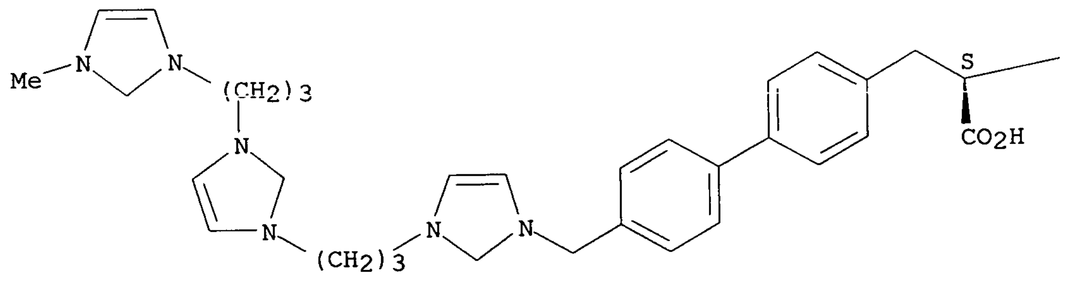
(succinic acid derivative metallo-β-lactamase inhibitors, preparation, and use in treating bacterial infections)

RN 337906-88-4 CAPLUS

CN 1H-Imidazolium, 1-[3-[3-[[4'-[(2S,3S)-2,3-dicarboxy-4-phenylbutyl][1,1'-biphenyl]-4-yl]methyl]-1H-imidazolium-1-yl]propyl]-3-[3-(3-methyl-1H-imidazolium-1-yl)propyl]-, trichloride (9CI) (CA INDEX NAME)

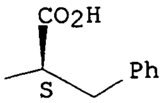
Absolute stereochemistry.

PAGE 1-A



● 3 Cl⁻

PAGE 1-B



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

```
L9   ANSWER 9 OF 18  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   2000:513690  CAPLUS
DN   133:124928
TI   Cationic diaryl compounds, use for oxidation dyeing of keratin fibers,
     dyeing compositions and dyeing method
IN   Genet, Alain; Lagrange, Alain
PA   L'oreal, Fr.
SO   PCT Int. Appl., 52 pp.
     CODEN: PIXXD2
DT   Patent
LA   French
FAN.CNT 1
     PATENT NO.          KIND    DATE        APPLICATION NO.          DATE
     ---------------     ----    --------    --------------------     --------
PI   WO 2000043386        A1     20000727    WO 2000-FR94              20000118
         W:  AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
             CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
             IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD,
             MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,
             SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ,
             BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     FR 2788519           A1     20000721    FR 1999-502               19990119
     CA 2322998           AA     20000727    CA 2000-2322998           20000118
     EP 1064278           A1     20010103    EP 2000-900599            20000118
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, FI
     JP 2002535324        T2     20021022    JP 2000-594802            20000118
PRAI FR 1999-502          A      19990119
     WO 2000-FR94         W      20000118
OS   MARPAT 133:124928
AB   Diaryl compds., useful as precursors for oxidation dyeing of keratin fibers,
     have amine groups on each of the aromatic rings and ≥1 cationic group
     selected from quaternized aliphatic chains containing ≥1 (un)saturated
     quaternized cycle.  These compds. allow dyeing of keratin fibers so that
     individual strands have multiple shades.
IT   285995-59-7 285995-60-0 285995-64-4
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (cationic diaminodiaryl compds., for use oxidation dyeing of hair)
RN   285995-59-7  CAPLUS
CN   1H-Imidazolium, 1,1'-(1,4-butanediyl)bis[3-[2-[(2-amino-4-
     hydroxyphenyl)amino]ethyl]-, dichloride (9CI)  (CA INDEX NAME)
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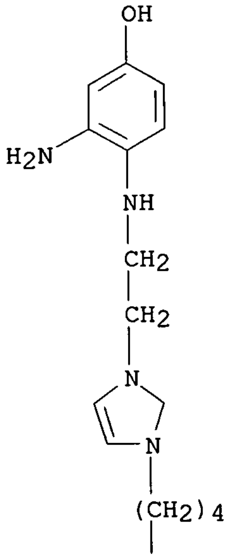
PAGE 1-A



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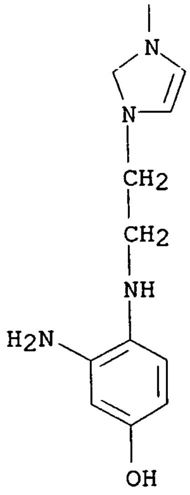
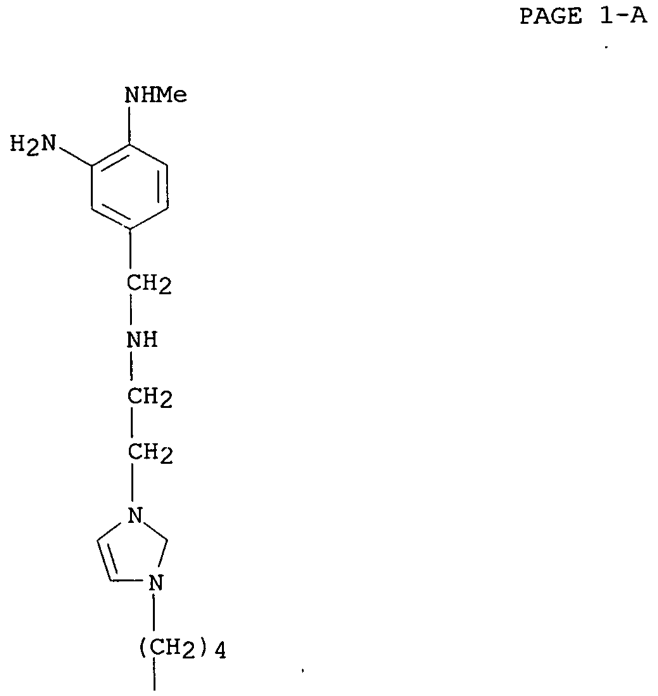
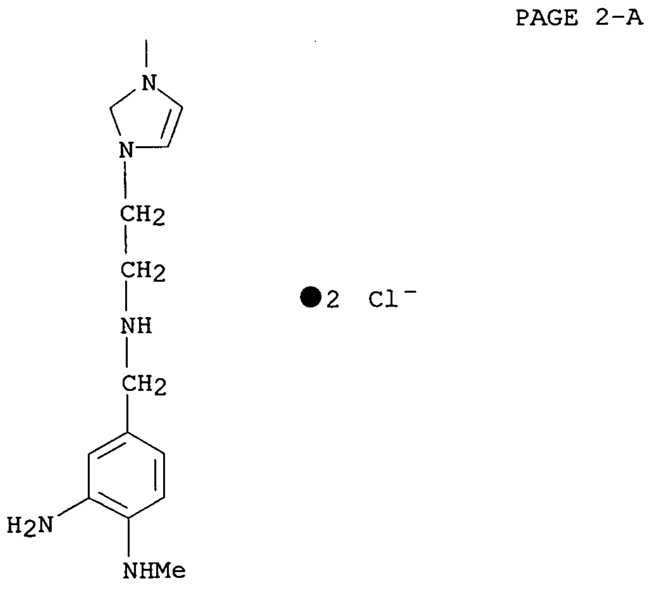


●2 Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 285995-60-0 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,4-butanediyl)bis[3-[2-[[[3-amino-4-(methylamino)phenyl]methyl]amino]ethyl]-, dichloride (9CI) (CA INDEX

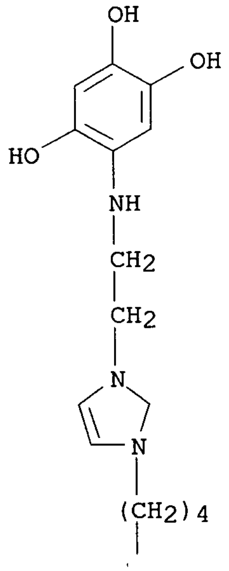
NAME)



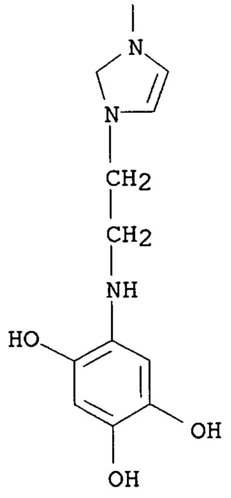


ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 285995-64-4 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,4-butanediyl)bis[3-[2-[(2,4,5-trihydroxyphenyl)amino]ethyl]-, dichloride (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

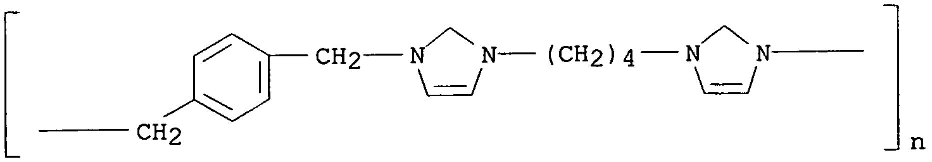


●2 Cl^-

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

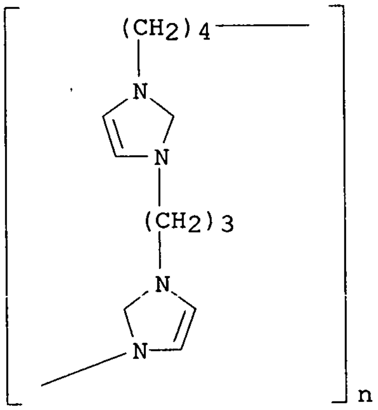
```
L9   ANSWER 10 OF 18  CAPLUS  COPYRIGHT 2006 ACS on STN
AN   1999:487200  CAPLUS
DN   131:145246
TI   Heterocyclic quaternary ammonium polymers and their use in hair
     preparations
IN   Leduc, Madeleine; Richard, Herve; Lagrange, Alain
PA   L'Oreal, Fr.
SO   PCT Int. Appl., 56 pp.
     CODEN: PIXXD2
DT   Patent
LA   French
FAN.CNT 1
     PATENT NO.          KIND   DATE       APPLICATION NO.        DATE
     ---------------     ----   --------   --------------------   --------
PI   WO 9937276           A1    19990729   WO 1999-FR85           19990118
         W:  AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
             DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP,
             KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
             MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM,
             TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU,
             TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
             FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
             CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     FR 2773991           A1    19990730   FR 1998-793            19980126
     FR 2773991           B1    20000526
     CA 2318338           AA    19990729   CA 1999-2318338        19990118
     AU 9920594           A1    19990809   AU 1999-20594          19990118
     EP 1051144           A1    20001115   EP 1999-900944         19990118
     EP 1051144           B1    20030903
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, FI
     JP 2002501011        T2    20020115   JP 2000-528260         19990118
     AT 248572            E     20030915   AT 1999-900944         19990118
     ES 2207164           T3    20040516   ES 1999-900944         19990118
     US 6416770           B1    20020709   US 2000-601020         20000921
PRAI FR 1998-793          A     19980126
     WO 1999-FR85         W     19990118
AB   The invention relates to heterocyclic quaternary polyammonium ionene
     polymers as protective agent for keratin fibers, to cosmetic compns. using
     them and to method for treating hair with the aid of these
     polymers.  The polymers are obtained by copolymg. dihalides with
     heterocyclic compds. containing 2 N atoms and show good compatibility with
     surfactants and other ingredients in hair formulations while protecting
     the hair from adverse effects of these formulations.  A typical polymer
     was prepared from 1,1'-tetramethylenebis(imidazole) and α,α'-
     dibromo-p-xylene and was applied in oxidative hair dyes.
IT   124303-88-4P, α,α'-Dibromo-p-xylene-1,1'-
     tetramethylenebis(imidazole) copolymer, SRU 235745-42-3P,
     1,3-Dibromopropane-1,1'-tetramethylenebis(imidazole) copolymer, SRU
     235745-47-8P, 1,2-Bis(2-chloroethoxy)ethane-1,1'-
     tetramethylenebis(imidazole) copolymer, SRU 235745-53-6P,
     α,α'-Dichloro-p-xylene-1,1'-tetramethylenebis(imidazole)
     copolymer, SRU
     RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); BIOL
     (Biological study); PREP (Preparation); USES (Uses)
        (production of heterocyclic quaternary ammonium ionene polymers for hair
        prepns.)
```

RN 124303-88-4 CAPLUS
CN Poly(1H-imidazolium-1,3-diyl-1,4-butanediyl-1H-imidazolium-1,3-diylmethylene-1,4-phenylenemethylene dibromide) (9CI) (CA INDEX NAME)



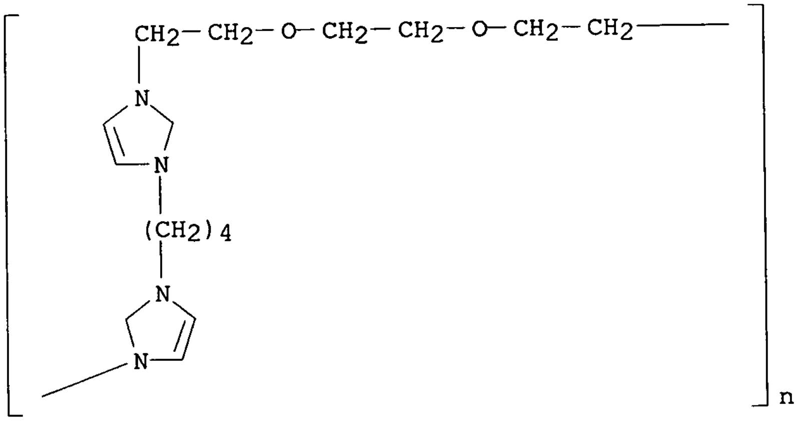
●2 Br⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 235745-42-3 CAPLUS
CN Poly(1H-imidazolium-1,3-diyl-1,3-propanediyl-1H-imidazolium-1,3-diyl-1,4-butanediyl dibromide) (9CI) (CA INDEX NAME)



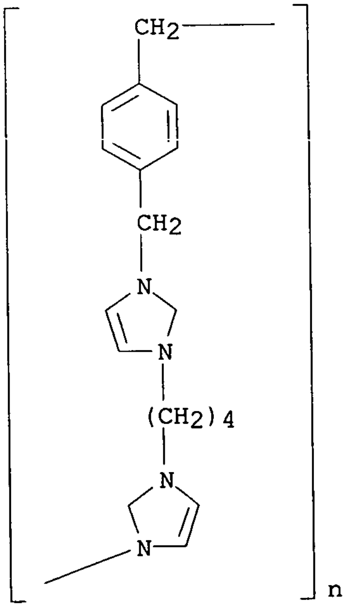
●2 Br⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 235745-47-8 CAPLUS
CN Poly(1H-imidazolium-1,3-diyl-1,4-butanediyl-1H-imidazolium-1,3-diyl-1,2-ethanediyloxy-1,2-ethanediyloxy-1,2-ethanediyl dichloride) (9CI) (CA INDEX NAME)



●2 Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 235745-53-6 CAPLUS
CN Poly(1H-imidazolium-1,3-diyl-1,4-butanediyl-1H-imidazolium-1,3-diylmethylene-1,4-phenylenemethylene dichloride) (9CI) (CA INDEX NAME)



●2 Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1998:268576 CAPLUS
DN 128:309713

TI Fabric softener, its preparation **method**, and formation of premix composition

IN Wahl, Errol Hoffman; Trinh, Toan; Oler, Chad James

PA Procter & Gamble Co., USA; Wahl, Errol Hoffman; Trinh, Toan; Oler, Chad James

SO PCT Int. Appl., 115 pp.
CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9817750	A1	19980430	WO 1997-US18934	19971021
	W: BR, CA, CN, JP, MX, US				
	CA 2269352	AA	19980430	CA 1997-2269352	19971021
	JP 2000504370	T2	20000411	JP 1998-519551	19971021
	BR 9713487	A	20021126	BR 1997-13487	19971021
PRAI	US 1996-28903P	P	19961021		
	WO 1997-US18934	W	19971021		

OS MARPAT 128:309713

AB Highly unsatd. fabric softener active quaternary ammonium compds., preferably containing ester linkages, which provide improved softening, antistatic benefits, wear benefits, color maintenance, etc. to fabric, are prepared by reaction of fatty acids (triglyceride source) and esters with polyamines in amidation or conditions to form imidazoline or with NH3, optionally quaternizing the amine mixture of fatty amides or imidazolines, in the presence of chelating agents such as diethylenetriaminepentaacetic acid. A premix is prepared by mixing the above fabric softening actives with primary solvent mono-ol or diol having a partitioning coefficient (ClogP value) .apprx.0.15-0.64. Such a fabric softener composition contains dioleyldimethylammonium chloride.

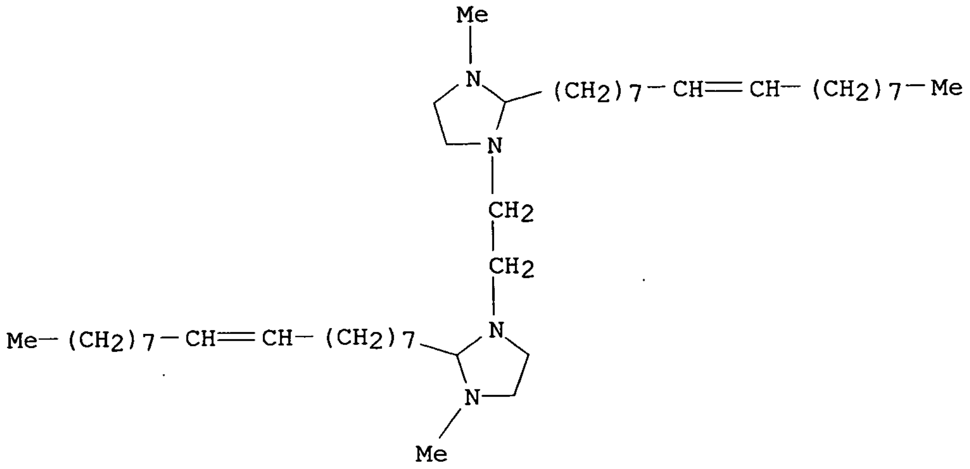
IT **72403-37-3**
RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(concentrated rinse-added fabric softener manufacture for improved softening and
antistatic and wear benefits and color maintenance and fiber integrity)

RN 72403-37-3 CAPLUS

CN 1H-Imidazolium, 1,1'-(1,2-ethanediyl)bis[2-(8-heptadecenyl)-4,5-dihydro-3-methyl-, bis(methyl sulfate) (9CI) (CA INDEX NAME)

CM 1

CRN 72403-36-2
CMF C44 H84 N4



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2

CRN 21228-90-0
CMF C H3 O4 S

$Me-O-SO_3^-$

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1997:383164 CAPLUS
DN 127:81590
TI Heterocyclic carbenes. Part 11. One-pot synthesis of rhodium and iridium carbene complexes
AU Koecher, Christian; Herrmann, Wolfgang A.
CS Anorganisch-chemisches Institut der Technischen Universitaet Muenchen, Lichtenbergstrasse 4, D-85747, Garching, Germany
SO Journal of Organometallic Chemistry (1997), 532(1-2), 261-265
CODEN: JORCAI; ISSN: 0022-328X
PB Elsevier
DT Journal
LA English
AB Rhodium carbene complexes Rh(X)(η4-1,5-cod)(Lcarbene) (X = halide anion, Lcarbene = imidazole, triazole, pyrazole and benzimidazole carbene) are directly accessible from [Rh(η4-1,5-cod)Cl]2 following a simple new one-pot synthesis. A slurry of this complex in ethanol is successively treated with an excess of both sodium ethoxide and heteroarom. azolium salt. An in situ formed rhodium ethoxide complex acts as deprotonating agent. Cyclooctadiene may be displaced by two mols. of carbon monoxide yielding Rh(CO)2X(Lcarbene), and one carbon monoxide ligand may again be replaced by phosphines or phosphites to yield trans-Rh(CO)X(Lcarbene)(Lp). The described **method** also works for analogous iridium complexes. The σ-donor/π-acceptor characteristics of imidazole carbenes are compared with those of

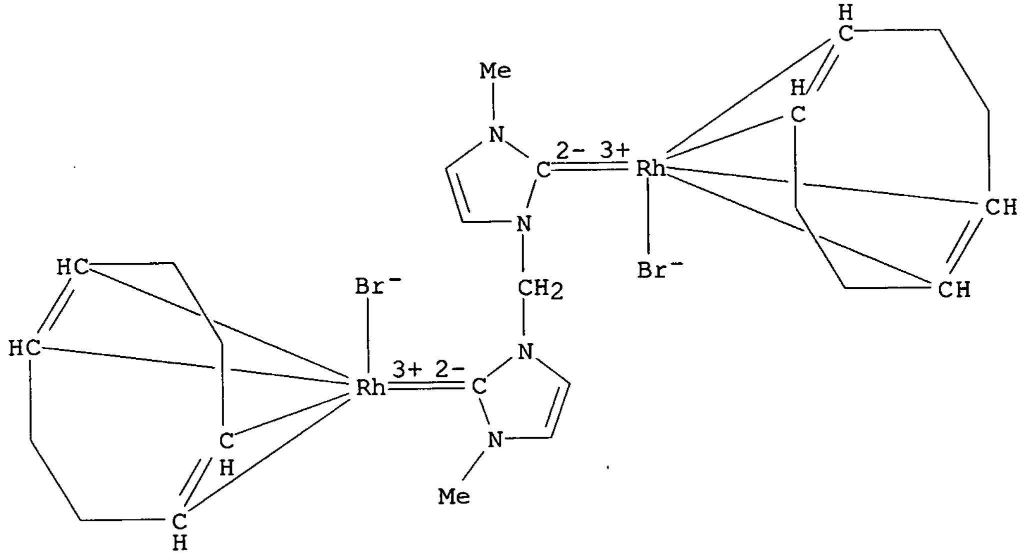
phosphines.

IT **191723-44-1P**

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 191723-44-1 CAPLUS

CN Rhodium, dibromobis[(1,2,5,6-η)-1,5-cyclooctadiene][μ-[methylenebis(3-methyl-1H-imidazol-1-yl-2(3H)-ylidene)]]di- (9CI) (CA INDEX NAME)

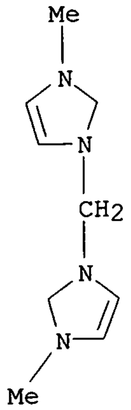


IT **191723-60-1**

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of rhodium and iridium heterocyclic carbene complexes)

RN 191723-60-1 CAPLUS

CN 1H-Imidazolium, 1,1'-methylenebis[3-methyl-, dibromide (9CI) (CA INDEX NAME)



●2 Br⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1997:261581 CAPLUS
DN 126:311337
TI Synthesis and structure of a three-dimensional copper(II) coordination polymer with 1,2-bis(imidazol-1'-yl)ethane
AU Wu, Liang Ping; Yamagiwa, Yoshiro; Kuroda-Sowa, Takayoshi; Kamikawa, Tadao; Munakata, Megumu
CS Department of Chemistry, Kinki University, Kowakae, Higashi-Osaka, Osaka, 577, Japan
SO Inorganica Chimica Acta (1997), 256(1), 155-159
CODEN: ICHAA3; ISSN: 0020-1693
PB Elsevier
DT Journal
LA English
AB The synthesis and characterization of the Cu(II) complex [Cu(bim)2.5](ClO4)2·2MeOH, where bim = 1,2-bis(imidazol-1'-yl)ethane, is described. The complex crystallizes in the monoclinic system, space group P21/a, with a 12.280(8), b 12.533(5), c 19.490(9) Å, β 92.17(5)° and Z = 4. The structure was solved by a direct **method** and refined by full-matrix least-squares to a residual R value of 0.064 and Rw of 0.066. The complex contains noninteracting ClO4- anions and a {[Cu(bim)2.5]2+}∞ macrocation in which each metal ion involves a distorted square-based pyramidal coordination environment comprising five N atoms from five sep. bim mols. The total structure consists of two alternately stacked 2-dimensional sheets of Cu(II) ions bridged through the bidentate imidazole mols. constituting a three-dimensional network. Consistent with the observed structural data the complex shows a typical axially sym. ESR signal at room temperature
IT **189205-36-5DP**, polymeric
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation, crystal structure, and ESR of)

RN 189205-36-5 CAPLUS

CN Copper(4+), [μ-[1,1'-(1,2-ethanediyl)bis[1H-imidazole-κN3]]]tetrakis[1-[2-(1H-imidazol-1-yl)ethyl]-1H-imidazole-κN3]di-, tetraperchlorate, compd. with methanol (1:4) (9CI) (CA INDEX NAME)

CM 1

CRN 67-56-1
CMF C H4 O

H3C—OH

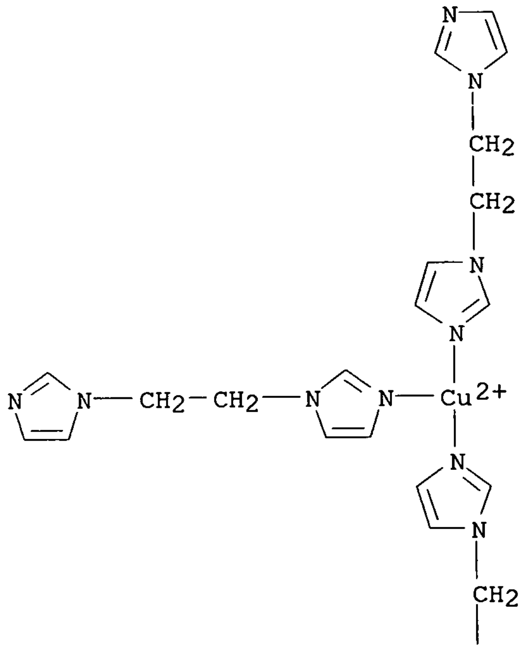
CM 2

CRN 189205-35-4
CMF C40 H50 Cu2 N20 . 4 Cl O4

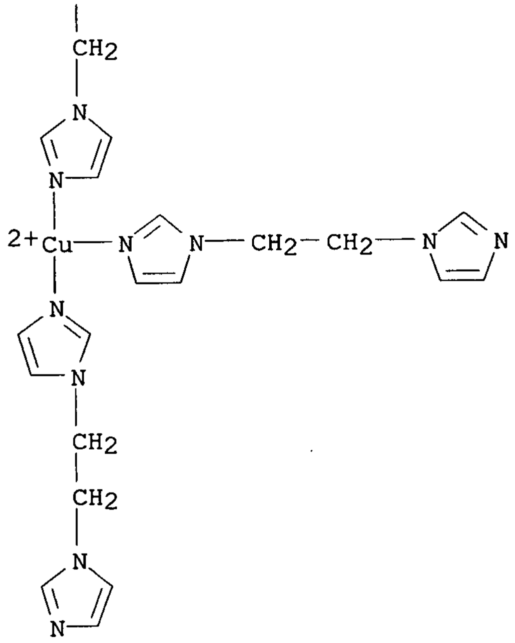
CM 3

CRN 189205-34-3
CMF C40 H50 Cu2 N20
CCI CCS

PAGE 1-A

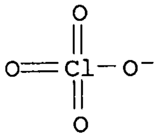


PAGE 2-A

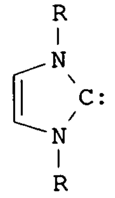


CM 4

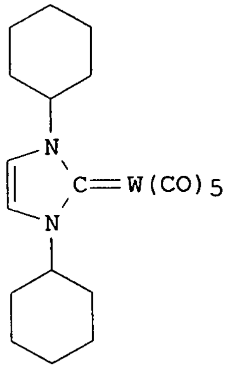
CRN 14797-73-0
CMF Cl O4



L9 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1997:55453 CAPLUS
DN 126:186020
TI Heterocyclic carbenes: 6. A high-yielding synthesis of novel, functionalized N-heterocyclic carbenes in liquid ammonia
AU Herrmann, Wolfgang A.; Koecher, Christian; Goossen, Lukas J.; Artus, Georg R. J.
CS Inst. der Technischen, Univ. Muenchen, Garching, D-85747, Germany
SO Chemistry--A European Journal (1996), 2(12), 1627-1636 Published in: Angew. Chem., Int. Ed. Engl., 35(23/24)
CODEN: CEUJED; ISSN: 0947-6539
PB VCH
DT Journal
LA English
GI



I



II

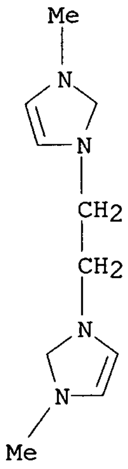
AB To date the only free carbenes of the imidazoline-2-ylidene type to have been described in the literature are those bearing simple hydrocarbon or haloalkyl and-aryl substituents. A novel, versatile and high-yielding **method** for the synthesis of N-heterocyclic carbenes, i.e. 1,3-dihydro-2H-imidazol-2-ylidenes I (r = alkyl, cyclohexyl, Me, etc.)in a mixture of liquid ammonia and aprotic organic solvents was reported. Deprotonation of imidazolium precursor salts proceeded under mild conditions within a few minutes at temps. below -30°C, and side reactions were avoided. The imidazolium salts were much more soluble in organic solvents if liquid ammonia was added. Furthermore, the acidity of the C-2 protons appeared to be enhanced by hydrogen bonding. Not only were the known free ylidenes conveniently and quant. accessible by this procedure, but also novel functionalized derivs. that were not accessible by known procedures. Imidazoline-2-ylidenes with linear, branched, cyclic, heteroatom-substituted (O, N, P) and chiral hydrocarbon residues were accessible through the novel route. Stable carbene-metal adducts were conveniently obtained by treating the free carbenes with chloro- or acetato-bridged dinuclear metal complexes, or by displacement of coordinated ligands such as carbon monoxide, THF or acetonitrile by the free carbenes. The syntheses of novel imidazolium salts, N-heterocyclic carbenes and carbene adducts of RuII, RhI, W0 and sulfur were reported, and the structures of five products analyzed by single-crystal X-ray diffraction. N-Heterocyclic carbenes bearing functionalized side chains were important because a number of these complexes showed excellent activity in catalytic reactions. They did not show the typical reactivity of metal-carbon double bonds and were remarkably stable both thermally and chemical For a number of reasons, they were best viewed as donor adducts of the highly Lewis basic imidazoline-2-ylidene ligands and the Lewis acidic organometallic fragments. The new synthetic procedure reported here made N-heterocyclic carbenes a generally accessible class of useful ligands in coordination chemical and catalysis. For example, the reaction of 1,3-dicyclohexylimidazoline-2-ylidene I (R = cyclohexyl) with tungstenhexacarbonyl gave the pentacarbonyl(1-cyclohexyl-1,3-dihydro-2H-imidazol-2-ylidene)tungsten II.

IT **179863-08-2P**

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reactions of imidazolylidene carbenes)

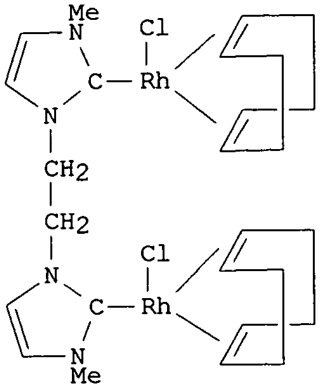
RN 179863-08-2 CAPLUS
CN 1H-Imidazolium, 1,1'-(1,2-ethanediyl)bis[3-methyl-, dibromide (9CI) (CA INDEX NAME)



●2 Br⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RE.CNT 79 THERE ARE 79 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1996:473535 CAPLUS
DN 125:248056
TI Heterocyclic carbenes. 5. N-Heterocyclic carbenes: generation under mild conditions and formation of Group 8-10 transition metal complexes relevant to catalysis
AU Herrmann, Wolfgang A.; Elison, Martina; Fischer, Jakob; Koecher, Christian; Artus, Georg R. J.
CS Anorg.-Chem. Inst., Tech Univ. Muenchen, Garching, D-85747, Germany
SO Chemistry--A European Journal (1996), 2(7), 772-780 Published in: Angew. Chem., Int. Ed. Engl., 35(13/14)
CODEN: CEUJED; ISSN: 0947-6539
PB VCH
DT Journal
LA English
OS CASREACT 125:248056
GI



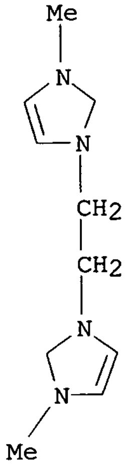
I

AB Stable mono- and dicarbene adducts of late transition metals are readily accessible either by reaction of imidazolium salts with metal complexes bearing basic ligands, or by the cleavage of chloro- and acetato-bridged dinuclear metal complexes with the free carbenes (e.g., 1,3-dimethylimidazoline-2-ylidene). A general novel **method** for the deprotonation of N-substituted azolium salts in liquid NH3-the liquid NH3 route-is described. This **method** yields not only the known free monomeric 1,3-dimethylimidazoline-2-ylidene in quant. yield, but also otherwise hardly accessible derivs. For example, imidazoline-2-ylidenes with linear, branched, cyclic, heteroatom-substituted and even chiral hydrocarbon residues can be obtained. The nucleophilic behavior of 1,3-dimethylimidazoline-2-ylidene is reported and compared with that of other donor ligands. Novel carbene complexes of RuII, RhI, PdII, OsII and IrI are presented. Reaction of the potentially chelating ligand 1,1'-(1,2-ethylene)-3,3'-dimethyldiimidazoline-2,2'-diylidene with [(COD)RhCl]2 yields a dinuclear complex, in which two Rh centers are linked by the dicarbene bridge. Four single-crystal x-ray diffraction structures of new metal-carbene complexes (Rh, Os) are reported, e.g. I. N-Heterocyclic carbene complexes of Group 8-10 transition metals are both thermally and chemical very stable. They do not show the typical reactivity of metal-C double bonds. For a number of reasons, these complexes must be regarded as donor adducts of the Lewis-basic imidazoline-2-ylidene ligand and the Lewis-acidic organometallic fragment.

IT **179863-08-2**, 1,1'-(1,2-Ethylene)-3,3'-dimethyldiimidazolium dibromide
RL: RCT (Reactant); RACT (Reactant or reagent)
(deprotonation in liquid ammonia)

RN 179863-08-2 CAPLUS

CN 1H-Imidazolium, 1,1'-(1,2-ethanediyl)bis[3-methyl-, dibromide (9CI) (CA INDEX NAME)



●2 Br^-

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

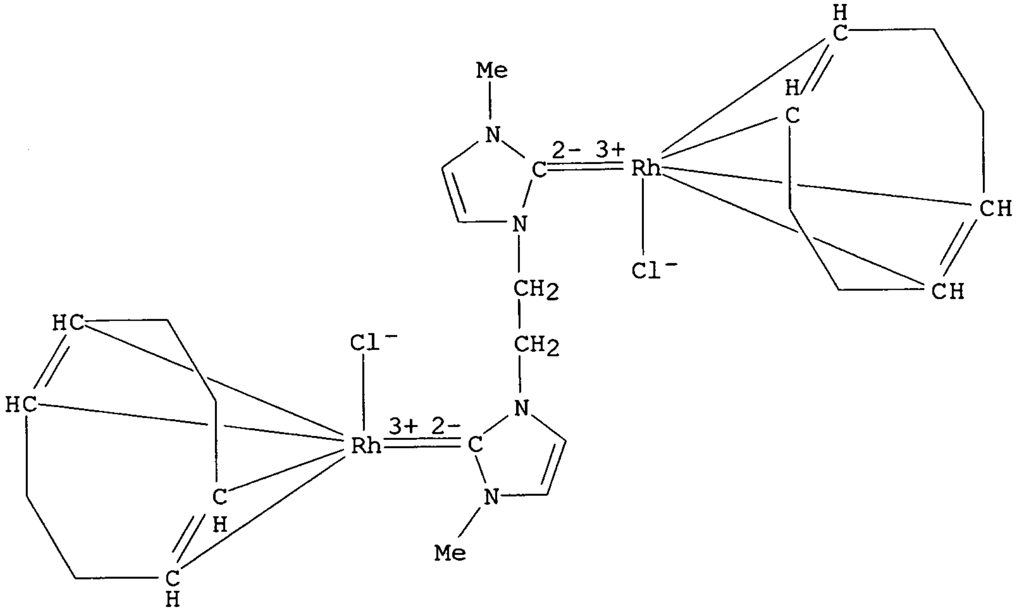
IT **181422-59-3P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and crystal structure of)

RN 181422-59-3 CAPLUS

CN Rhodium, dichlorobis[(1,2,5,6-η)-1,5-cyclooctadiene][μ-[1,2-ethanediylbis(3-methyl-1H-imidazol-1-yl-2(3H)-ylidene)]]di-, compd. with dichloromethane (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 179862-94-3
CMF C26 H38 Cl2 N4 Rh2
CCI CCS

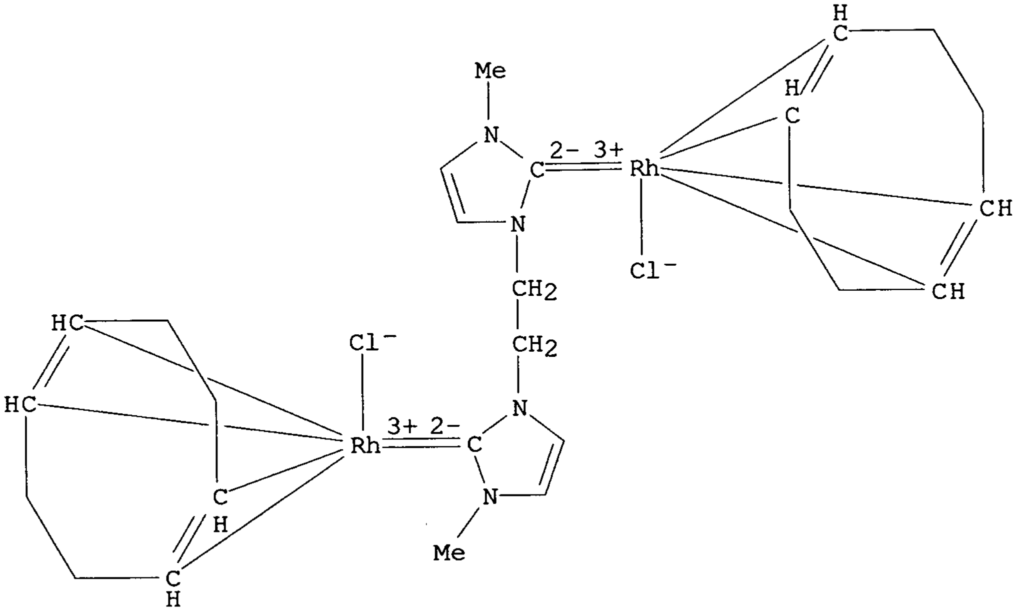


CM 2

CRN 75-09-2
CMF C H2 Cl2

$Cl-CH_2-Cl$

IT **179862-94-3P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and mol. structure of)
RN 179862-94-3 CAPLUS
CN Rhodium, dichlorobis[(1,2,5,6-η)-1,5-cyclooctadiene][μ-[1,2-ethanediylbis(3-methyl-1H-imidazol-1-yl-2(3H)-ylidene)]]di- (9CI) (CA INDEX NAME)

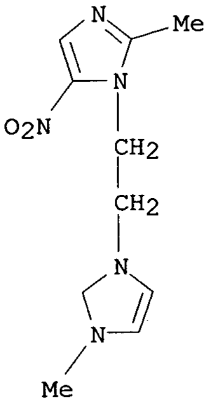


L9 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1989:511651 CAPLUS
DN 111:111651
TI Radiosensitization by quaternary salts of 5-nitroimidazole derivatives
AU Santos, L.; Lopez Zumel, M. C.; Alvarez, M. V.; Izquierdo, M. C.
CS Inst. Quim. Fis. "Rocasolano", CSIC, Madrid, 28006, Spain
SO International Journal of Radiation Biology (1989), 55(6), 983-91
CODEN: IJRBE7; ISSN: 0955-3002
DT Journal
LA English
AB The radiosensitizing effects of 5 newly synthesized quaternary salts of 5-nitroimidazole derivs. on the survival of TC-SV40 mammalian cells after x-irradiation have been measured. A toxicity study was carried out in order to determine the concns. to be used in the radiosensitizing expts. The O enhancement ratio (OER) for TC-SV40 cells was 2.74. None of the five 5-nitroimidazole derivs. showed radiosensitizing activity in aerobic conditions, while in hypoxia their dose-modifying factors (DMF) at a concentration of 0.2 mmol dm-3 range 1.52-1.03 in the order: unsubstituted pyridinium > carbamoyl pyridinium > tri-Me pyridnium > tert-butylpyridinium > imidazolium. This latter product at a concentration of
2

mmol dm-3 has a DMF of 1.64. As comparison, metronidazole was also tested on this cell line and its DMF at 0.2 mmol dm-3 was 1.35. The response-concentration dependences for the unsubstituted pyridinium 5-nitroimidazole derivative and for metronidazole (comparing charged and uncharged structures) showed the flattening response-concentration curve of quaternary compds. The electron affinity was evaluated through the CNDO/S theor. **method,** and an exponential relationship between these values and the DMFs of the pyridinium derivs. was demonstrated.
IT **96515-32-1**
RL: BIOL (Biological study)
(radiosensitization by, of mammalian cells to x-rays, electron affinity in relation to)

RN 96515-32-1 CAPLUS

CN 1H-Imidazolium, 1-methyl-3-[2-(2-methyl-5-nitro-1H-imidazol-1-yl)ethyl]-, chloride (9CI) (CA INDEX NAME)



● Cl^-

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L9 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN

AN 1989:50114 CAPLUS

DN 110:50114

TI Crystal structures of the imidazole and the 1,4-di(1-imidazolyl)butane adducts of N,N'-ethylenebis[salicylideneaminato]manganese(III) perchlorate

AU Matsumoto, Naohide; Takemoto, Naohiko; Oyosi, Akira; Okawa, Hisashi

CS Fac. Eng., Kumamoto Univ., Kumamoto, 860, Japan

SO Bulletin of the Chemical Society of Japan (1988), 61(8), 2984-6
CODEN: BCSJA8; ISSN: 0009-2673

DT Journal

LA English

AB [Mn(Him)(salen)][ClO4].MeOH [I; Him = imidazole; Hsalen = (2-HOC6H4CH:NCH2)2] and [Mn(biim)(salen][ClO4] [II; biim = 1,4-bis(1-imidazoyl)butane] were prepared and characterized by the single-crystal x-ray diffraction **method**. Crystals of I are triclinic, space group P.hivin.1, Z = 2; those of II are monoclinic, space group P21/a, Z = 4. The mol. structure of I is a binuclear structure bridged by phenoxy O atoms of salen, while that of II is a polynuclear structure bridged by imidazole N atoms of biim.

IT **117453-51-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and crystal structure of polymeric)

RN 117453-51-7 CAPLUS

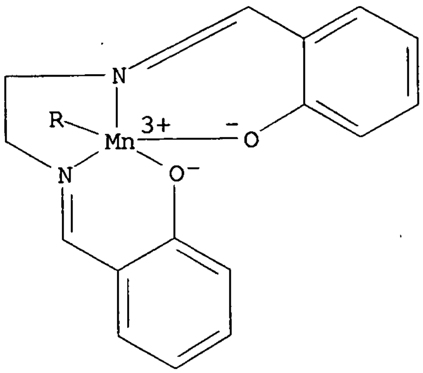
CN Manganese(1+), [1,1'-(1,4-butanediyl)bis[1H-imidazole]-N3][[2,2'-[1,2-ethanediylbis(nitrilomethylidyne)]bis[phenolato]](2-)-N,N',O,O']-, (SP-5-23)-, perchlorate (9CI) (CA INDEX NAME)

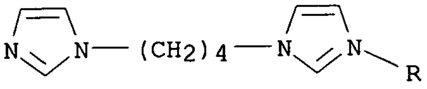
CM 1

CRN 117453-50-6

CMF C26 H28 Mn N6 O2

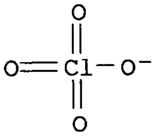
CCI CCS





CM 2

CRN 14797-73-0
CMF Cl O4



$$O=\overset{\overset{O}{\|}}{\underset{\underset{O}{\|}}{Cl}}-O^-$$

L9 ANSWER 18 OF 18 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1988:152077 CAPLUS
DN 108:152077
TI **Method** of dyeing of textile materials containing cellulose fibers
IN Dvorsky, Drahomir; Cerovsky, Karel
PA Czech.
SO Czech., 5 pp.
CODEN: CZXXA9
DT Patent
LA Czech
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CS 237820	B1	19851016	CS 1982-7938	19821108
PRAI	CS 1982-7938		19821108		

GI For diagram(s), see printed CA Issue.
AB Cationization agents I, [R1, R2 = CH(OH)CH2Cl or oxiranyl, R3 = H, Me, Et; n = 2-4; and X = Cl, Br] improve dyeing of textiles containing cellulose

fibers with anionic dyes from long baths, with improved wet fastness and crease recovery. They are applied in the amount 0.1-15% on cellulose at pH 11-14 before or after dyeing. Thus, a cotton yarn was treated with a bath containing 3% I [R1, R2 = CH(OH)CH2Cl, R3 = H, n = 4, X = Cl] at 50° for 10 min, 1.5% NaOH was added, heating continued for 45 min, washed and neutralized with AcOH, dyed in a bath containing 2% C.I. Reactive Blue 4 at 30-90°, 0.5 g/L dodecyl sulfate was added, and washed. Fast color and a soft handle were obtained at high utilization of dye.

IT **113684-84-7 113684-85-8 113695-52-6**

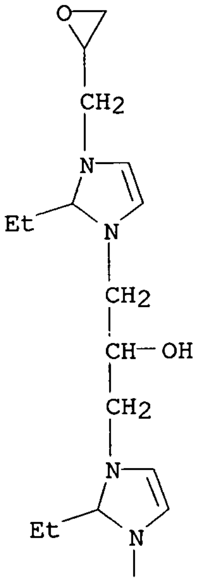
RL: USES (Uses)

(dyeing improvers, for cotton dyed with anionic dyes, colorfast and good handle)

RN 113684-84-7 CAPLUS

CN 1H-Imidazolium, 2-ethyl-1,3-bis[3-[2-ethyl-3-[3-[2-ethyl-3-(oxiranylmethyl)-1H-imidazolium-1-yl]-2-hydroxypropyl]-1H-imidazolium-1-yl]-2-hydroxypropyl]-, pentabromide (9CI) (CA INDEX NAME)

PAGE 1-A



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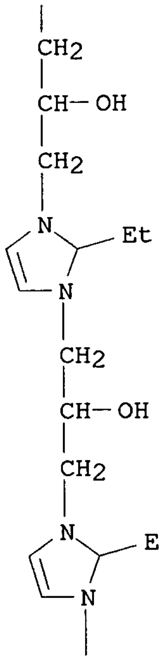

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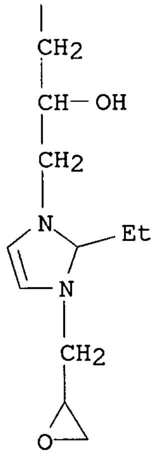


●5 Br^-

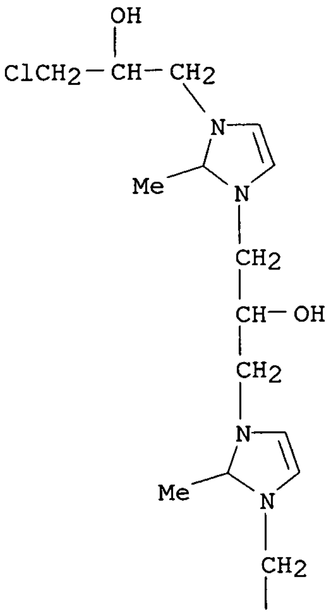
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

RN 113684-85-8 CAPLUS

CN 1H-Imidazolium, 1-[3-[3-[3-[3-(3-chloro-2-hydroxypropyl)-2-methyl-1H-imidazolium-1-yl]-2-hydroxypropyl]-2-methyl-1H-imidazolium-1-yl]-2-hydroxypropyl]-3-[2-hydroxy-3-[3-[2-hydroxy-3-[2-methyl-3-(oxiranylmethyl)-

1H-imidazolium-1-yl]propyl]-2-methyl-1H-imidazolium-1-yl]propyl]-2-methyl-
, pentachloride (9CI) (CA INDEX NAME)

PAGE 1-A



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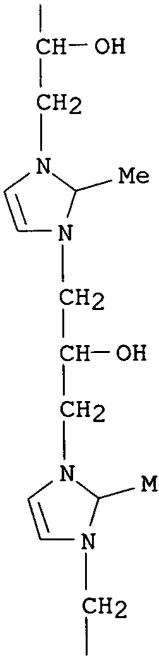

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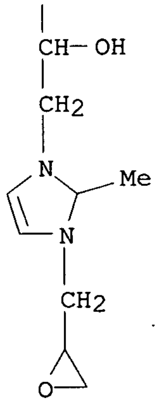
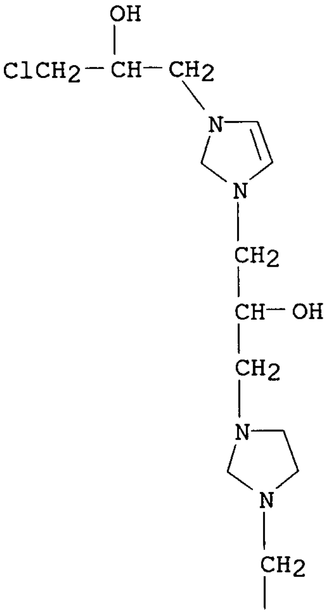


●5 Cl⁻

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE
RN 113695-52-6 CAPLUS
CN 1H-Imidazolium, 1,3-bis[3-[3-[3-[3-(3-chloro-2-hydroxypropyl)-1H-imidazolium-1-yl]-2-hydroxypropyl]-1H-imidazolium-1-yl]-2-hydroxypropyl]-, pentachloride (9CI) (CA INDEX NAME)

PAGE 1-A



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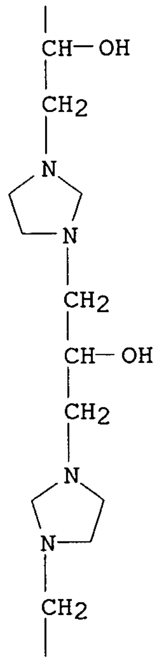

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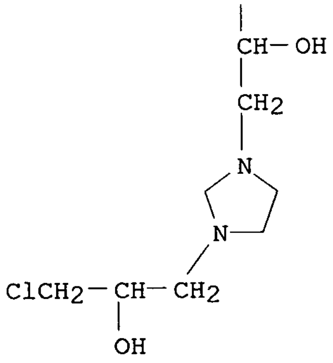

●5 Cl$^-$

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ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE


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COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
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